

# FODA BEARING

HEBEI FODABEARING TRANSMISSION CO.,LTD



## Application

Our sieving bearings are widely used in mining and metallurgical machinery, oil and chemical industry, construction machinery, wind power equipments, port machinery, high precision radar and missile launchers, aerospace and some other fields.

## FODA BEARING

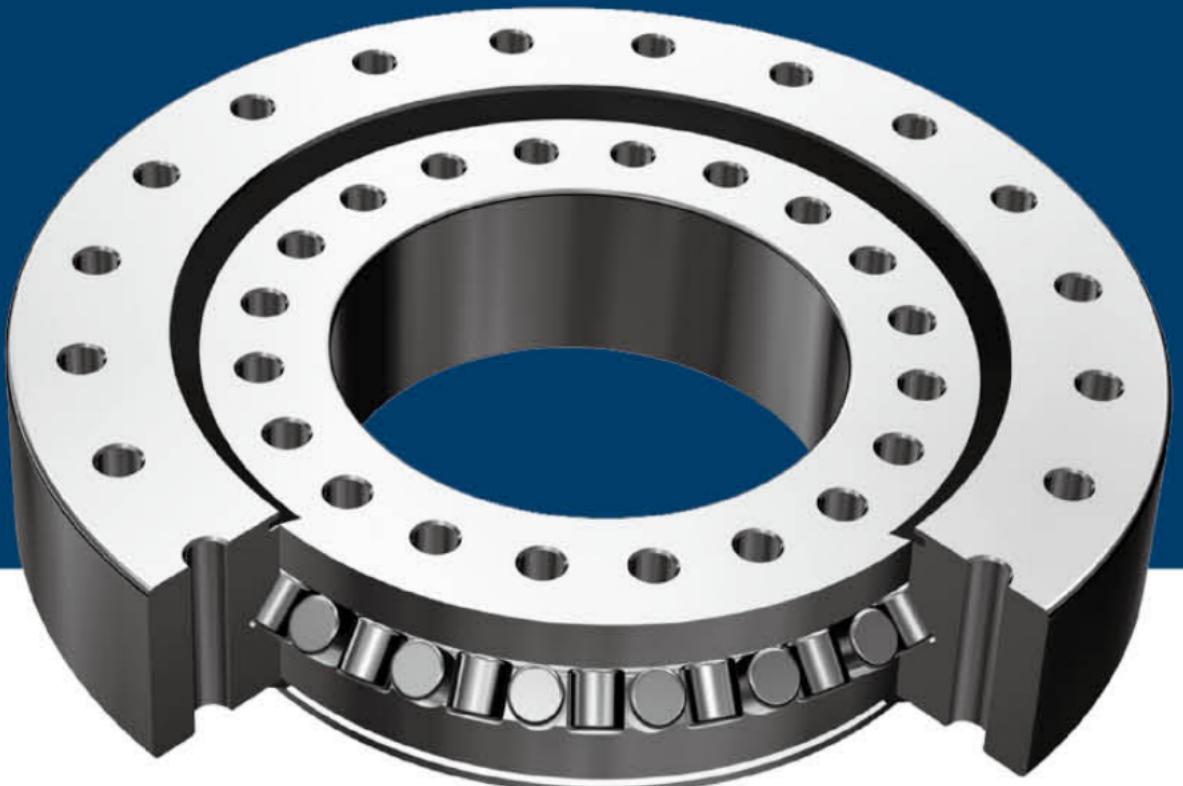
Add: Bearing Zone, Linxi Industry Cluster District, Xingtai City, Hebei Province, China

Tel :008618903317731

Fax:008615100190656

Email:shelley@fodabearing.com

Website: www.fodabearing.com



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## ENTERPRISE Introduction >>

Hebei Foda Bearing Transmission Co.,Ltd is a professional manufacturer of slewing bearings, extra large bearings, non-standard bearings and wind power bearings which has the advanced ability of researching and developing slewing bearings and special bearings.

The featured products are slewing bearings for port machinery, hoisting machinery and stacker reclaimers, wind power bearings, rolling mill bearings and etc. We can offer such series of bearings with diameters from 100 mm to 7800 mm and accuracy class of P0.P6 and P5. We have achieved ISO 9001.2008 Certification and began to export large turntable bearings in 2003, which are favoured by our customers.

The main instruments of our company are as follows 6.3 meter, 5 meter, 4 meter, 2.5 meter and 1.6 meter huge CNC vertical lathes, 5meter huge teeth-miler, 3.5meter universal grinder, 5 meter CNC hardening machine, 3 meter plano drilling machine, testing bed with 6 meter length and 4 meter width, large bridge leveling ruler and etc. Our kinds of advanced test machines can match bearings test with different accuracy classes types and special requests. All products are inspected according to the current national standards strictly to make multiple technology indicators of bearings reach or exceed the national standards.

Our company supplies slewing rings, gear, external gear and sun gear. In January of 2013, we moved to the new factory! Warmly welcome you to visit our new factory and hope to cooperate with you in the near future.





# Product Introduction

According to customer requirement and working condition, LYJW can design and produce various kinds of special bearing, which can meet customer requirement.



Split Tapered Roller Bearing



Sealed Four-row Tapered Roller Bearing



Presion Turntable Bearing



Four-row Tapered Roller Bearing



Thrust Tapered Roller Bearing



Tapered roller bearing



Double-deck Spherical Roller Bearing



Angular Contact Ball Bearing



Crossed Roller Bearing for Robots

# Bearing Processing

## One: Rough Detection

1. Test the material of rough and its state after forging, inspecting whether there are lamination, cracks and any other defect in rough.
2. Measure all the dimensions of rough, calculate manufacture allowance and estimate the number of turning exactly.



## Two: Turning

1. Lathe Rough
- Lathe rough according to the drawings.
2. Lathe Rough Aging
- After lathe rough of the bearing parts, keep them on three-points, be flat (don't superposer) and then go on aging treatment (not less than 48 hours) in order to eliminate the internal stress caused in the process of rough turning and prevent serious deformations.
3. Molding And Turning
- After bearing parts molding and turning, in order to prevent serious deformations, we must release parts fixed device to make bearing parts in stress-free state, looking for the correct position again and press on with it.
4. Special technology of inner ring with crossed, three-row roller slewing bearing
- In order to prevent deformation of crossed, three-row roller slewing bearing after inner ring heat-treatment in the turning process, we must process them in pairs, cutting and shaping after heat-treatment.



## Three: Heat-treatment

Surface of bearing raceway intermediate frequency quenching, hardness should not be less than 55HRC, depth of hardened layer should not be less than 4mm, soft zone width should not be less than 50mm, then mark "S" at the corresponding position.



## Four: Gear Processing

Slewing Bearing with internal and external teeth should be done gear milling before grinding process strictly according to the technological requirements and precision grade reached requirements.

## Five: Drilling

Fixing the position according to the drawings and inspecting dimensions correctly and then drilling mounting holes in slewing bearing which the inner ring and outer ring separated must be combined together to process and the interval must be 180° from soft zone, distance tolerances between mounting holes should not be over than 0.5mm.



## Six: Grinding

1.Rough Grinding: We use adamantine spar,soft three particle 36°gross blow hole resin grinding wheel to grind and linear speed is controled in 1500 rev/min to prevent raceway from burning. The maximum depth will not be over than 1mm.

### 2.Final Grinding

Apply the particle 46°or 60°resin grinding wheel to grind,grinding allowance will be smaller than rough grinding process.SMOOTH and dimensions should meet all the requirements according to the drawings.



## Seven: Assembling

1.Adjust clearance: We will take trial assembly after grinding so as to test initial clearance. Go on final grinding process according to calculation data and initial clearance and then obtain the final clearance should be matched with requirements of the drawings.

### 2.Parts Inspecting:

After clearance finished,cleaning the bearing parts and then go on with final parts inspecting and record accordingly.

### 3.Package:

Pack products and offer relevant certificates.



## Eight: File Verification

In order to help our customers understand slewing bearing internal quality and material source or some other technical data, we offer the technical data as following:

### (1)Slewing Bearing Qualification

### (2)Instruction For Installation And Usage Of Slewing Bearing

### (3)Bearing Parts Material Qualification ( Material Certification )



## Code Method

FODA Slewing Bearing has three methods to name their bearing code

### 1. Method I

The code use JB/T10471 <Rolling Bearing ---Slewing Bearing> Standard

#### 1.1 Code Structure

Bearing Code consists of two parts—Basic Code and Suffix Code:

#### 1.1.1 Basic Code

The code is divided into three parts: Front, Middle and Back Parts

- Front Part: Structural type and transmission type, Table2.1~2.2;
- Middle Part: Roller Diameter. If more than two rows of rolling element bearing, the roller diameter refers to the big one;
- Back Part: Main force of raceway diameter of roller center.
- When name the basic code, structure type and transmission type write Sequentially, use “.” to separate, Table 2.1.

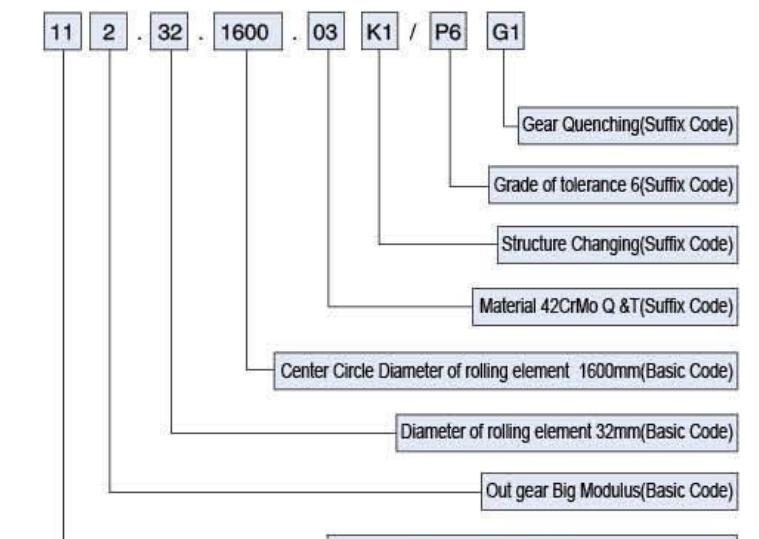
( Table 2.1 )

Type of Structure Code	Type of Structure
01	Four- Point Contact Ball Slewing Bearing
02	Four- Point Contact Ball Slewing Bearing
11	Crossed Cylindrical Roller Slewing Bearing
13	Three-Row Cylindrical Roller Slewing Bearing

( Table 2.2 )

Transmission Code	Transmission Type
0	non-gear type
1	Involute cylinder outer gear with small modulus
2	Involute cylinder outer gear with big modulus
3	Involute cylinder inner gear with small modulus
4	Involute cylinder inner gear with big modulus

#### Code Example



( Picture 2.1 )

( Table 2.3 )

Suffix Code arrangement ( Later of Basic Code)			
1	2	3	4
Bearing Material	Sealed, Structure Modification, Technical requirement	Tolerance Classes	Gear Changing

( Table 2.4 )

Code	03	04	11	12	13
Material	42CrMoQ&T	42CrMoN	50MnQ&T	50MnN	Other Material

T: Stand for material should be Q&T (Quenching and Tempering)

Z: Stand for material should be N (Normal)

## 2 . Method II

This code is according to national bearing standards code method, by the front-end code, the basic code and suffix code. Code structure,table 2.5.

( Table 2.5 )

Bearing Code								
Prefix Code		Basic Code(Seven Arabic Numerals)						Suffix Code
Clearance Tranches	Accuracy Class	seven	six	five	four	three	two	one
Arabic Numerals Stand for	Chinese Pinyin Stand for	Width Series	Structural Style	Type	Diameter Series	ID Size	Chinese Pinyin and Numerals Stand for	

## Front-end Code

Tolerance grade are the three levels:P0,P6,P5, from low precision to high precision, the tolerance level 0 is not marked as usually.

## Basic Code

Basic code consists of seven digits number, Table 2.6:

( Table 2.6 )

Inner Diameter			
Inner Diameter d (mm)	Code Method	Example	
		Designations	Inner Diameter(mm)
< 500	1. quotient of inside diameter divided by 5 stand for 2. While inside diameter is decimal or be divided with remainder by five, use score, the denominator stand for the inner diameter size.	79764 797/496 797/488.5	320 496 488.5
≥ 500	Use score, the denominator stand for the inner diameter size.	787/800	800

## Suffix Code

Slewing Bearing commonly used code, Table 2.7:

( Table 2.7 )

Code	Definition
G2	42CrMo;... G2 stand for the material of Ring is 50Mn; if no code, the material of ring is 42CrMo
K、K1、K2...	The structure is a little different compared with the standard bearings.
M	Friction moment requirement
Y、Y1、Y2...	Bearing technical changing
U	Special clearance

## 3 . Method III

As to some nonstandard bearing symbols of FODA ,They are made from “ FD ” “ - ” 、 “ Diameter of rolling element +diameter of rotating center ”

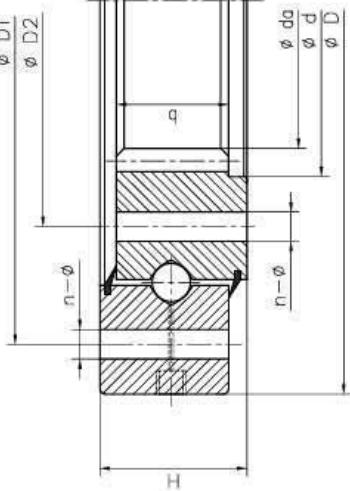
For Example: FDW-45.1400,show follows:  
FD--Company; W--Outer Gear or N--Inner Gear or U--No Gear;45--Diameter of 1400---Diameter rolling element; of rotating center

( Table 2.8 )

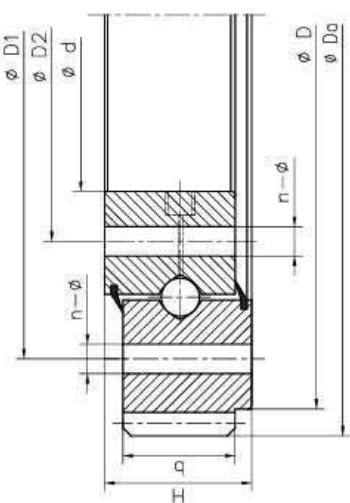
Construction	Transmission Type	non-gear type		external gear type		internal gear type	
		Method 1	Method 2	Method 1	Method 2	Method 1	Method 2
Four-point contact Ball Slewing bearing		010	78000	011/012	178000	013/014	278000
Cross Roller Slewing bearing		110	79000	111/112	179000	113/114	279000
Double-Row Ball With Different Diameter Bearing		020	578000	021/022	678000	023/024	778000
Three-Row Roller Slewing Bearing		130	539000	131/132	639000	133/134	739000

## Four-point contact Ball Slewing Bearing

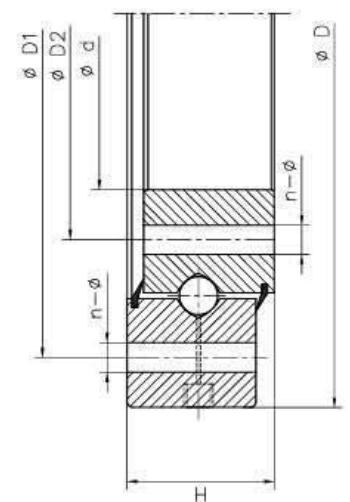
Single Row Four Point Contact Ball Slewing Bearing is made from two rings, compact form, light in weight, balls contact with the raceway by four points. Single Row Four Point Contact Ball Slewing Bearing can bear axial force, radial force and overturning moment at the same time. Customers can select inner gear type or outer gear type Single Row Four Point Contact Ball Slewing Bearings according to the different applications. It is easy to use and install. Single Row Four Point Contact Ball Slewing bearings are widely used in Construction Machineries, such as Rotary Transfer Machines, Manipulators, Excavators and so on.



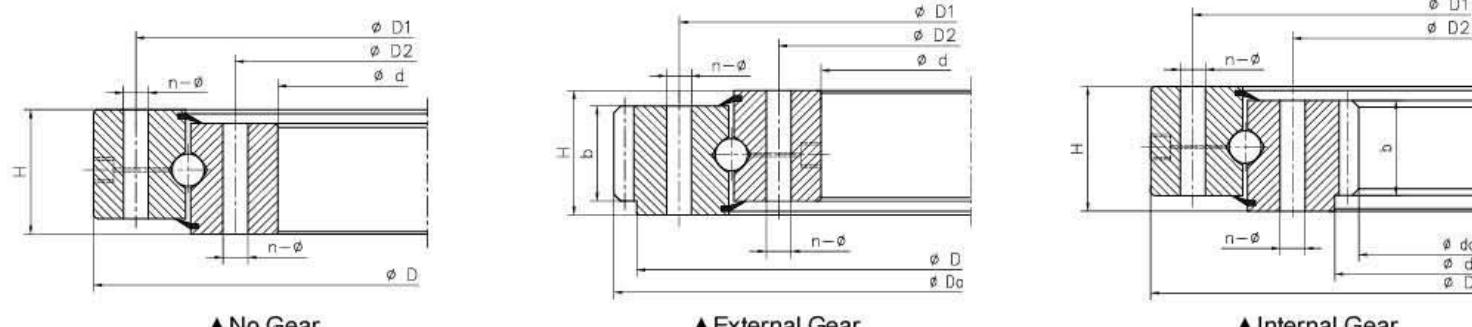
▲ Internal Gear



▲ External Gear



▲ No Gear



Technical Data:

Designation			Dimensions			Mounting Hole Size				Gear Data								Basic load ratings	Weight
No Gear	External Gear	Internal Gear	D	d	H	D1	D2	n	ϕ	m	Da	Z	da	Z	b	x	Coa 10kN	kg	
010.12.120			170	70	40	148	90	6	10								13	4.8	
010.13.178			240	90	36	214	116	8	10								20	9.24	
010.20.200	011.20.200		280	120	60	248	152	12	16	3	300	98			40	0	33	20	
010.20.224	011.20.224		304	144	60	272	176	12	16	3	321	105			40	0	38	22	
010.20.250	011.20.250		330	170	60	298	202	18	16	4	352	86			40	0	42	25	
010.20.280	011.20.280		360	200	60	328	232	18	16	4	384	94			40	0	49	28	
010.25.315	011.25.315	013.25.315	408	222	70	372	258	20	18	5	435	85	190	40	50	0	76	43	
010.25.355	011.25.355	013.25.355	448	262	70	412	298	20	18	5	475	93	235	49	50	0	81	49	
010.25.400	011.25.400	013.25.400	493	307	70	457	343	20	18	6	528	86	276	48	50	0	96	55	
010.25.450	011.25.450	013.25.450	543	357	70	507	393	20	18	6	576	94	324	56	50	0	112	64	
010.30.500	011.30.500	013.30.500	602	398	80	566	434	20	18	5	630	123	365	74	60	0.5	129	75.8	
	012.30.500	014.30.500	602	398	80	566	434	20	18	6	630	102	366	62	60	0.5	129	75.8	
010.30.560	011.30.560	013.30.560	662	458	80	626	494	20	18	5	690	135	425	86	60	0.5	144	94	
	012.30.560	014.30.560	662	458	80	626	494	20	18	6	690	112	427	72	60	0.5	144	94	
010.30.630	011.30.630	013.30.630	732	528	80	696	564	24	18	6	774	126	492	83	60	0.5	187	110	
	012.30.630	014.30.630	732	528	80	696	564	24	18	8	776	94	488	62	60	0.5	187	110	
010.30.710	011.30.710	013.30.710	812	608	80	776	644	24	18	6	852	139	570	96	60	0.5	212	120	
	012.30.710	014.30.710	812	608	80	776	644	24	18	8	856	104	568	72	60	0.5	212	120	
010.40.800	011.40.800	013.40.800	922	678	100	878	722	30	22	8	968	118	632	80	80	0.5	313	256	
	012.40.800	014.40.800	922	678	100	878	722	30	22	10	970	94	630	64	80	0.5	313	256	

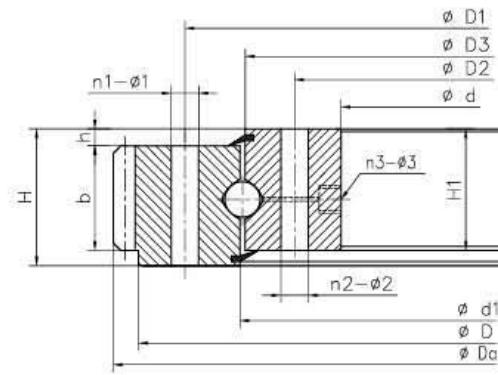
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Technical Data:

Designation			Dimensions			Mounting Hole Size				Gear Data								Basic load ratings	Weight
No Gear	External Gear	Internal Gear	D	d	H	D1	D2	n	ϕ	m	Da	Z	da	Z	b	x	Coa 10kN	kg	
010.40.900	011.40.900	013.40.900	1022	778	100	978	822	30	22	8	1064	130	736	93	80	0.5	355	240	
	012.40.900	014.40.900	1022	778	100	978	822	30	22	10	1070	104	730	74	80	0.5	355	240	
010.40.1000	011.40.1000	013.40.1000	1122	878	100	1078	922	36	22	10	1190	116	820	83	80	0.5	394	305	
	012.40.1000	014.40.1000	1122	878	100	1078	922	36	22	12	1188	96	816	69	80	0.5	394	305	
010.40.1120	011.40.1120	013.40.1120	1242	998	100	1198	1042	36	22	10	1300	127	940	95	80	0.5	443	300	
	012.40.1120	014.40.1120	1242	998	100	1198	1042	36	22	12	1308	106	936	79	80	0.5	443	300	
010.45.1250	011.45.1250	013.45.1250	1390	1110	110	1337	1163	40	26	12	1452	118	1044	88	90	0.5	554	420	
	012.45.1250	014.45.1250	1390	1110	110	1337	1163	40	26	14	1456	101	1036	75	90	0.5	554	420	
010.45.1400	011.45.1400	013.45.1400	1540	1260	110	1487	1313	40	26	12	1608	131	1188	100	90	0.5	617	480	
	012.45.1400	014.45.1400	1540	1260	110	1487	1313	40	26	14	1610	112	1190	86	90	0.5	617	480	
010.45.1600	011.45.1600	013.45.1600	1740	1460	110	1687	1513	45	26	14	1820	127	1386	100	90	0.5	702	550	
	012.45.1600	014.45.1600	1740	1460	110	1687	1513	45	26	16	1824	111	1376	87	90	0.5	702	550	
010.45.1800	011.45.1800	013.45.1800	1940	1660	110	1887	1713	45	26	14	2016	141	1568	113	90	0.5	793	610	
	012.45.1800	014.45.1800	1940	1660	110	1887	1713	45	26	16	2016	123	1568	99	90	0.5	793	610	
010.60.2000	011.60.2000	013.60.2000	2178	1825	144	2110	1891	48	33	16	2272	139	1728	109	120	0.5	1210	1100	
	012.60.2000	014.60.2000	2178	1825	144	2110	1891	48	33	18	2268	123	1728	97	120	0.5	1210	1100	
010.60.2240	011.60.2240	013.60.2240	2418	2065	144	2350	2131	48	33	16	2496	153							

## Four-point contact Ball Slewing Bearing

### External Gear

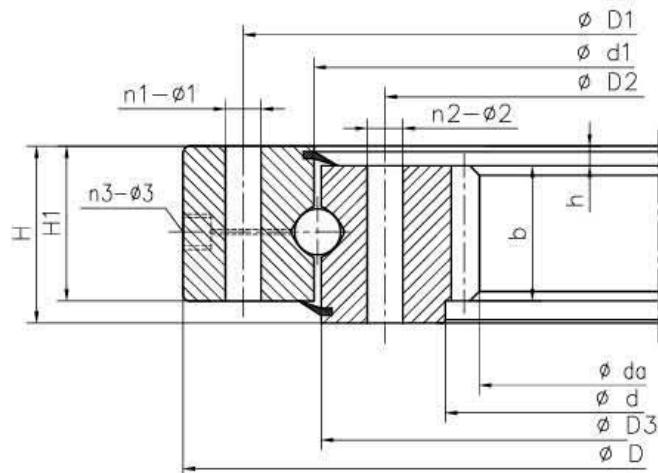


Technical Data:

Designation	Dimensions			Mounting Hole Size						Structure Dimensions						Gear Data				Basic Load Ratings	Weight	
	D	d	H	D1	D2	n1	n2	φ1	φ2	D3	d1	H1	h	n3	φ3	m	Da	Z	b	x		
																				Coa	kg	
D178794	694	470	77	630	500	18	18	M16	18	567.5	564.5	64	13	6	M10x1	6	696	114	60	0	157	93.1
1787/600G	786	600	72	740	636	20	24	M18x2.5	19	689	691	60	7	4	ZG1/8in	6	789	131	50	0	107	94.1
1787/674G2	853	674	70	825	709	34	23	20	M20	764	768	59	10	2	ZG1/8in	7	889	125	50	0	183	89
11787/674G2K	853	674	70	825	709	34	24	18	18	764	768	59	10	2	ZG1/8in	7	889	125	50	0	183	88.6
1787/710G2	894	710	67	845	744	8	8	M10	M10	798	806	58	9	3	M10x1	6	924	152	55	0	179	107
1787/710G2K	894	710	67	875	760	8	12	M10	M12	798	806	58	9	3	M10x1	6	924	152	55	0	179	107
1787/710G2KI	894	710	67	865	744	20	20	13	13	798	806	58	9	4	M10x1	6	924	152	55	0	179	107
1787/800G	1050	800	90	1012	838	30	30	20	20	923	927	76	16	3	M10x1	6	1092	180	60	0	215	217
1787/800GK	1050	800	90	1012	838	30	30	20	20	923	927	76	16	3	M10x1	6	1092	180	60	0	215	217
1788/1040G2	-	1040	80	1220	1080	30	30	M16	17.5	1153	1157	70	10	-	-	10	1314	125	70	0	297	251
1787/1060G	1335	1060	109	1295	1105	24	24	M20	22	1198	1202	100	9	4	M8x1	10	1388	138	80	-0.6	501	407
1787/1075	1365	1075	120	1310	1130	36	36	26	26	1218	1222	105	15	4	M8x1	8	1424	176	90	0	463	463
1787/1075K	1365	1075	130	1310	1130	36	36	24	24	1218	1222	105	10	-	-	10	1420	140	120	0	463	550
1787/1075G2	1365	1075	120	1310	1130	36	36	24	24	1218	1222	105	15	4	M10x1	10	1425	138	90	1.4	463	463
1787/1075G2K	1365	1075	120	1310	1130	36	36	M24	26	1218	1222	105	15	4	M8x1	8	1424	176	90	0	463	463
1787/1330G2	1475	1330	82.4	1510	1362	24	24	18.5	18.5	1439	1445	70	12.4	6	M10x1	9	1584	174	70	0	353	280
3-647G	1407	1352	100	1370	1404	18	13	M8	M10	1390	1394	63	-	8	6	4.5	1449	320	60	0	216	143
1788/1410G2	-	1410	85	1590	1454	36	36	M16	17.5	1524.6	1528.6	70	15	-	-	10	1676	160	70	0	395	312
1787/1640G	2050	1640	160	1990	1710	30	30	28	28	1844	1856	140	20	2	M14x1.5	10	2108	210	105	-0.6	1118	1264
1787/1700	1945	1700	120	1900	1750	24	24	M18	21	1825	1845	110	10	4	M10x1	5	1970	392	35	0	405	516
1789/1700GM	2052	1700	100	1980	1780	24	24	20	M18	1878	1882	90	10	4	M14x1.5	5	2080	414	50	0	551	678
1787/2650G2	2885	2650	100	2850	2700	48	48	M20	M20	2777	2781	80	10	6	ZG14in	12	2950	244	80	0	913	751

## Four-point contact Ball Slewing Bearing

### Internal Gear

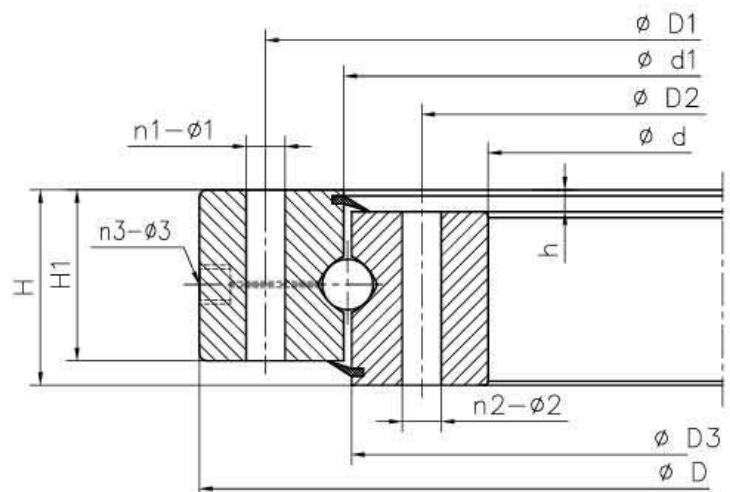


Technical Data:

Designation	Dimensions			Mounting Hole Size						Structure Dimensions						Gear Data				Basic Load Ratings	Weight	
	D	d	H	D1	D2	n1	n2	φ1	φ2	D3	d1	H1	h	n3	φ3	m	Da	Z	b	x		
																				Coa	kg	
2788/850K	976	850	80	-	-	-	-	-	-	916	919	80	-	-	-	2	916	456	20	0	174	117
3-646G2	1200	-	56	1170	1044	16	24	17.5	10.5	1088	1092	46	12	4	M8x1	6	985	166	44	0	210	84.1
2782/1000GK	1270	1000	100	1220	1050	24/2x2	24/2x2	17/M12	17/M12	1133	1137	85	15	2	M10x1	6	972.6	164	70	0	384	322
2787/1210G2	1530	1210	122	1480	1260	40	40	26	26	1368	1372	108	12	4	M10x1	10	1164	118	80	0	713	540
2787/1400GK	1715	1400																				

## Four-point contact Ball Slewing Bearing

No Gear

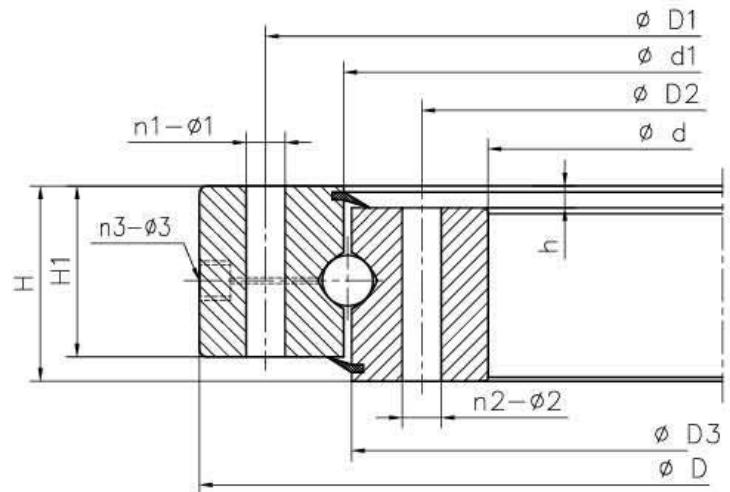


Technical Data:

Designations	Dimensions			Mounting Hole Size						Structure Dimensions						Basic Load Ratings	Weight
	D	d	H	D1	D2	n1	n2	φ1	φ2	D3	d1	H1	h	n3	φ3		
116752	480	260	60	444	296	16	16	14	14	360	390	60	-	-	-	75.4	55
116752K	480	260	60	-	-	-	-	-	-	360	380	60	-	-	-	75.4	58.6
176792	590	460	45	570	488	8	12	M10	10	518	542	45	-	-	-	62.6	35.9
176792K	590	460	45	570	488	12	12	10	10	518	542	45	-	-	-	62.6	36
176792K2M	590	460	45	570	488	12	8	10	10	526	534	45	-	-	-	94.4	30.8
1167/530	780	530	60	740	560	20	20	17	13	645	665	35	-	-	-	112	103
1167/560	720	560	36	690	590	12	12	14	12	638.5	641.5	33	3	-	-	70.8	40.3
1167/560K	720	560	36	690	590	12	32	M12	16	634	646	36	3	-	-	70.8	39.2
1167/560M	720	560	36	690	590	12	12	14	12	638.5	641.5	36	3	-	-	70.8	38.1
1168/560	780	560	60	-	-	-	-	-	-	645	668	60	3	-	-	224	103
11768/630	780	630	69	-	-	-	-	-	-	718	722	69	-	-	-	111	79.4
1167/700	900	700	36	860	740	12	12	M16	17	796	804	36	3	-	-	179	60
E787/760G2	950	760	80	915	795	24	24	18	M16	853.5	856.5	71	9	4	M10×1	203	138
3 - 640	1000	775	64	948	802	24	12/12	M12	13 / M12	878	882	49	15	2	M8×1	196	112
3 - 640K	1000	775	64	948	802	24	12/12	M12	13 / M12	878	882	49	15	2	M8	196	112

## Four-point contact Ball Slewing Bearing

No Gear



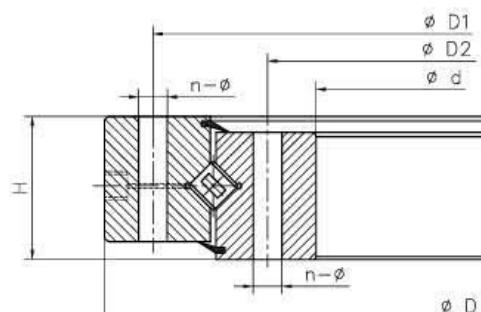
Technical Data:

Designations	Dimensions			Mounting Hole Size						Structure Dimensions						Basic Load Ratings	Weight
	D	d	H	D1	D2	n1	n2	φ1	φ2	D3	d1	H1	h	n3	φ3		
787/800G	1050	800	90	1012	838	30	30	20	20	923	927	76	16	3	M10×1	215	192
71769/850Y	1120	850	85	1074	924	12	12	M20	22	995	1010	85	-	-	-	151	248
71769/850G2K	1120	850	85	1074	924	12	12	17	22	999	1003	85	-	-	-	210	257
787/932G2	1200	932	120	1148	984	40	40	26	M24	1064	1068	100	20	4	G1 / 4in	349	328
787/960G2	1165	960	90	1135	1040	36	36	18	M16	1073	1077	78	14	6	M10×1	249	202
787/1000G2	1250	1000	100	1206	1044	12	12	18	M16	1123	1127	90	10	3	M10×1	540	283
787/1260G2	1509	1260	90	1465	1315	36	36	22	M20	1386	1389	70	14	2	ZGL / 8in	378	274
71169/1400Y	1820	1400	136	1750	1470	24	24	35	35	1608	1612	136	-	4	M10×1	611	1114
71169/1400Y1	1820	1400	136	1750	1470	24	24	35	35	1608	1612	136	-	4	M10×1	1070	1120
787/1440G2	1780	1440	100	1730	1494	48	48	22	M20	1618	1622	85	15	4	M12×1.25	503	533
787/1628G2	1927	1628	130	1875	1680	36	36	26	M24	1774	1778	115	15	6	G1 / 4in	692	732
787/1700KM	2000	1700	150	1950	1750	24	24	21	21	1842	1858	130	20	4	M10×1	684	826
KDL900—6	1050	832	56	1020	862	12	12	18	18	942	946	45	-	4	M6	227	52.5
LD-Q007	485	275	55	453	307	16	16	18	M16	381	386	50	5	4	M10×1	872	43.7
LD-Q007K	485	275	55	453	307	16	16	18	18	381	386	50	5	4	M10×1	872	43.7
LD-Q020	440	240	55	400	280	18	18	M20-7H	22	340	342	50	5	3	M10×1	782	34.7

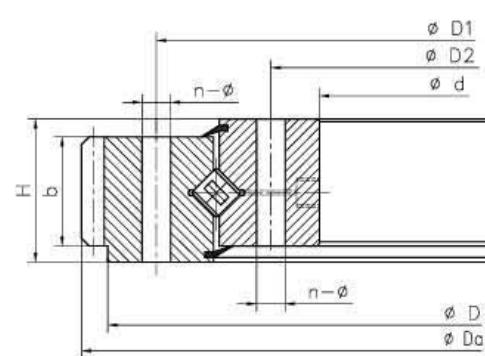


# Cross Roller Slewing Bearing

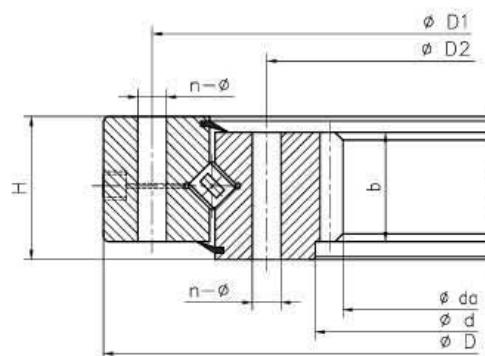
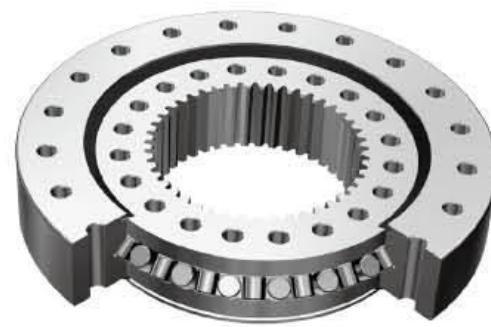
Single Row Cross Roller Slewing bearing is made from two rings, compact form, light in weight, high manufacturing and mounting, precision, small Assembling clearance, rollers cross banding by 1:1. Cross Roller Slewing bearing can bear axial force, overturning moment and rather large radial force at the same time. Customers can select inner gear type or outer gear type Single Cross Roller Slewing Bearing according to the different applications. It is easy to use and install. Cross Roller Slewing bearing is widely used in transport cranes, construction machineries and Martial industrial Products, ect.



▲No Gear



▲External Gear



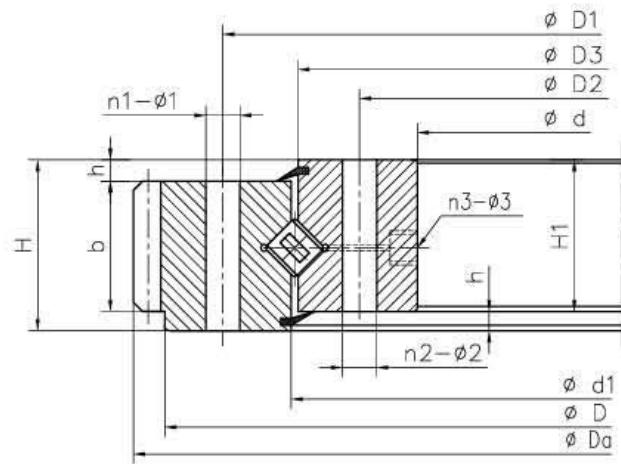
▲Internal Gear

## Technical Data:

Designation			Dimensions			Mounting Hole Size				Gear Data						Basic Load Ratings	Weight	
No Gear	External Gear	Internal Gear	D	d	H	D1	D2	n	φ	m	Da	Z	da	Z	b	x	Coa 10KN	kg
110.25.500	111.25.500	113.25.500	602	398	75	566	434	20	18	5	630	123	365	74	60	0.5	104	80
	112.25.500	114.25.500	602	398	75	566	434	20	18	6	630	120	360	62	60	0.5	104	80
110.25.560	111.25.560	113.25.560	662	458	75	626	494	20	18	5	690	135	425	86	60	0.5	116	90
	112.25.560	114.25.560	662	458	75	626	494	20	18	6	690	112	426	112	60	0.5	116	90
110.25.630	111.25.630	113.25.630	732	528	75	696	564	24	18	6	774	126	492	83	60	0.5	130	100
	112.25.630	114.25.630	732	528	75	696	564	24	18	8	776	94	488	62	60	0.5	130	100
110.25.710	111.25.710	113.25.710	812	608	75	776	644	24	18	6	852	139	570	96	60	0.5	149	110
	112.25.710	114.25.710	812	608	75	776	644	24	18	8	856	104	568	72	60	0.5	149	110
110.28.800	111.28.800	113.28.800	922	678	82	878	722	30	22	8	968	118	632	80	65	0.5	185	170
	112.28.800	114.28.800	922	678	82	878	722	30	22	10	970	94	630	64	65	0.5	185	170
110.28.900	111.28.900	113.28.900	1022	778	82	978	822	30	22	8	1064	130	736	93	65	0.5	209	190
	112.28.900	114.28.900	1022	778	82	978	822	30	22	10	1070	104	730	74	65	0.5	209	190
110.28.1000	111.28.1000	113.28.1000	1122	878	82	1078	922	36	22	10	1190	116	820	83	65	0.5	233	210
	112.28.1000	114.28.1000	1122	878	82	1078	922	36	22	12	1188	96	816	69	65	0.5	233	210
110.28.1120	111.28.1120	113.28.1120	1242	998	82	1198	1042	36	22	10	1300	127	940	95	65	0.5	262	230
	112.28.1120	114.28.1120	1242	998	82	1198	1042	36	22	12	1308	106	936	79	65	0.5	262	230
110.32.1250	111.32.1250	113.32.1250	1390	1110	91	1337	1163	40	26	12	1452	118	1044	88	75	0.5	321	350
	112.32.1250	114.32.1250	1390	1110	91	1337	1163	40	26	14	1456	101	1036	75	75	0.5	321	350
110.32.1400	111.32.1400	113.32.1400	1540	1260	91	1487	1313	40	26	12	1608	131	1188	100	75	0.5	358	400
	112.32.1400	114.32.1400	1540	1260	91	1487	1313	40	26	14	1610	112	1190	86	75	0.5	358	400
110.32.1600	111.32.1600	113.32.1600	1740	1460	91	1687	1513	45	26	14	1820	127	1386	100	75	0.5	412	440
	112.32.1600	114.32.1600	1740	1460	91	1687	1513	45	26	16	1824	111	1376	87	75	0.5	412	440
110.32.1800	111.32.1800	113.32.1800	1940	1660	91	1887	1713	45	33	14	2016	141	1568	113	75	0.5	460	500
	112.32.1800	114.32.1800	1940	1660	91	1887	1713	45	33	16	2016	123	1568	99	75	0.5	460	500
110.40.2000	111.40.2000	113.40.2000	2178	1825	112	2110	1891	48	33	16	2272	139	1728	109	90	0.5	686	900
	112.40.2000	114.40.2000	2178	1825	112	2110	1891	48	33	18	2268	123	1728	97	90	0.5	686	900
110.40.2240	111.40.2240	113.40.2240	2418	2065	112	2350	2131	48	33	16	2496	153	1984	125	90	0.5	764	1000
	112.40.2240	114.40.2240	2418	2065	112	2350	2131	48	33	18	2502	136	1980	111	90	0.5	764	1000
110.40.2500	111.40.2500	113.40.2500	2678	2325	112	2610	2391	56	33	18	2772	151	2232	125	90	0.5	797	876
	112.40.2500	114.40.2500	2678	2325	112	2610	2391	56	33	20	2780	136	2220	112	90	0.5	797	876
110.40.2800	111.40.2800	113.40.2800	2978	2625	112	2910	2691	56	33	18	3078	168	2520	141	90	0.5	960	1250
	112.40.2800	114.40.2800	2978	2625	112	2910	2691	56	33	20	3080	151	2520	127	90	0.5	960	1250
110.50.3150	111.50.3150	113.50.3150	3376	2922	134	3286	3014	56	45	20	3480	171	2820	142	110	0.5	1380	2150
	112.50.3150	114.50.3150	3376	2922	134	3286	3014	56	45	22	3476	155	2816	129	110	0.5	1380	2150
110.50.3550	111.50.3550	113.50.3550	3776	3322	134	3686	3414	56	45	20	3880	191	3220	162	110	0.5	1570	2470
	112.50.3550	114.50.3550	3776	3322	134	3686	3414	56	45	22	3894	174	3212	147	110	0.5	1570	2470
110.50.4000	111.50.4000	113.50.4000	4226	3772	134	4136												

# Cross Roller Slewing Bearing

## External Gear



Technical Data:

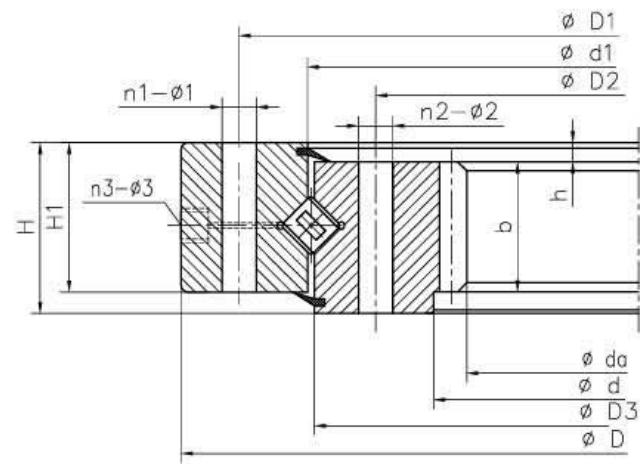
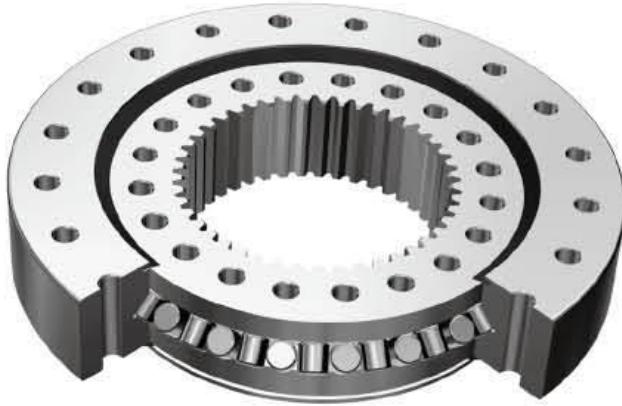
Designation	Dimensions			Mounting Hole Size						Gear Data					Basic Load ratings	Weight
	D	d	H	D1	D2	n1	n2	φ1	φ2	m	Da	Z	b	x	Coa 10kN	
1792/885	1056	885	83	1032	925	16	16	M16	17.5	8	1096	135	62.5	0	176	172
E1792/885	1056	885	83	1032	925	16	16	M16	17.5	8	1096	135	62.5	0	176	172
E1792/885K	1056	885	83	1032	925	16	16	M16	17.5	8	1096	135	62.5	0	176	172
1797/885G	1150	885	115	1115	935	16	16	18	18	5	1180	234	80	0	292	230
1797/1100G	1415	1100	115	1345	1160	24	18	21	21	6	1452	240	84	0	270	497
1798/1100G2	1400	1100	140	1352	1160	26	26	24	26	14	1477	104	90	-0.24	430	642
1798/1100G2K	1400	1100	145	1352	1160	26	26	24	26	14	1477	104	90	-0.24	430	644
1797/1250G2	1548	1250	148	1512	1297	16	16	25	25	12	1608	132	100	0	539	661
1797/1278G2	1595	1278	120	1535	1335	36	36	26	26	12	1655	134	90	1.15	485	597
1797/1300G2	1705	1300	165	1644	1360	24	24	32	32	14	1784	126	85	-0.3	578	1023
1792/1400G	1715	1400	110	1660	1460	42	42	26	26	12	1781	147	78	-0.3	597	597
1792/1400G2	1715	1400	110	1660	1460	42	42	26	26	12	1781	147	78	-0.3	597	597
1792/1400G2K	1715	1400	110	1660	1460	42	42	26	26	12	1781	147	78	-0.3	597	597
1797/1460G2	1800	1460	125	1735	1525	32	36	26	26	14	1882	133	95	-0.3	627	828
1797/1460G2K	—	1460	125	1735	1525	32	36	26	26	10	1880	186	115	0	627	845
1797/1916G2	—	1916	150	2245	1980	42	42	34	34	18	2416	133	135	-0.4	1150	1597
1797/2100G2	2600	2100	180	2540	2200	48	48	32	32	18	2700	148	130	0	1100	2395
1797/2100G2K	2600	2100	180	2540	2200	48	48	32	32	18	2700	148	130	0	1100	2392

Technical Data:

Designation	Dimensions			Mounting Hole Size						Gear Data					Basic Load ratings	Weight
	D	d	H	D1	D2	n1	n2	φ1	φ2	m	Da	Z	b	x	Coa 10kN	
1797/2460G2	—	2460	220	2930	2560	30	30	33	34	14	3108	220	200	0	1386	4091
1797/2460G2U	—	2460	220	2930	2560	30	30	33	34	14	3108	220	200	0	1386	4091
1797/2460G2K	3108	2460	220	2930	2560	30	30	33	34	14	3108	220	200	0	1386	4091
1797/2460G2K1	3108	2460	220	2930	2560	30	30	33	34	14	3108	220	200	0	1386	4091
1797/2500G2	—	2500	210	2990	2630	36	36	37	37	25	3250	128	200	0	1996	4597
1797/2500K	2920	2500	260	3060	2622	36	36	40	40	18	3258	179	190	0	1996	5407
1797/2500G2K1	2920	2500	260	3060	2622	36	36	40	40	18	3258	179	190	0	1996	5407
1797/2600G	—	2600	200	3050	2700	60	60	35	35	20	3233	160	180	-0.18	2030	3936
1797/2600G2	—	2600	200	3050	2700	60	60	35	35	20	3233	160	180	-0.18	2030	3936
1797/2600G2K	—	2600	200	3050	2700	60	60	35	35	20	3233	160	180	-0.18	2030	3936
1797/2600G2K1	—	2600	200	3050	2700	60	60	35	35	20	3233	160	180	-0.18	2320	3558
1797/2635G	3332	2635	270	3240	2755	36	36	42	42	20	3440	170	200	0	2950	5937
1797/2635G2	3332	2635	270	3240	2755	36	36	42	42	20	3440	170	200	0	2950	5937
1797/3230G	3970	3230	240	3820	3350	52	54	37	37	25	4100	162	200	0	3520	7612
1797/3230GY	3970	3230	240	3820	3380	52	36	37	37	25	4100	162	200	0	3520	7612
1797/3230G2	3970	3230	240	3820	3350	52	54	37	37	25	4100	162	200	0	3520	7613
1797/3230G2K	3970	3230	240	3820	3350	52	54	37	37	25	4100	162	200	0	3520	7613
1797/3230G2K2	3970	3230	240	3820	3350	52	54	37	37	22	4092	184	200	0	3520	7804
1797/3230G2K3	3940	3230	240	3820	3350	52	54	37	37	20	4080	202	200	0	3593	7302
1797/3230G2Y	3970	3230	240	3820	3380	52	36	37	37	25	4100	162	200	0	3593	7613
1797/3230G2Y2	3970	3230	240	3820	3380	52	36	37	37	25	4100	162	200	0	3593	7613
1797/3230G2Y3	—	3230	240	3820	3380	52	36	37	37	25	4100	162	220	0	3520	7613
1797/3230GK4	3970	3230	240	3820	3380	52	68	37	37	25	4100	162	200	0	3520	7613
1797/3230GK5	3970															

## Cross Roller Slewing Bearing

### Internal Gear



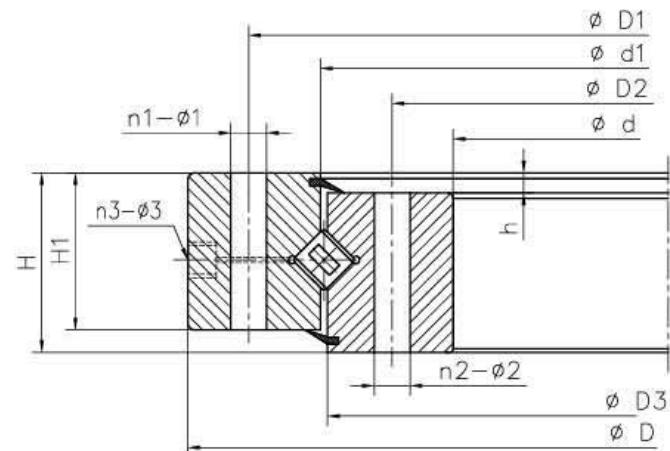
Technical Data:

Designation	Dimensions			Mounting Hole Size						Gear Data					Basic Load ratings	Weight
	D	d	H	D1	D2	n1	n2	φ1	φ2	m	Da	Z	b	x	Coa 10kN	
2797/695G2	920	695	90	870	735	30	30	18	18	7	658	96	65	0	161	175
2797/760G2	1000	760	95	956	800	24	24	20	20	8	718.2	91	70	0.35	237	206
2797/870G2	1180	870	115	1125	920	18	18	26	26	8	828.8	105	90	0.3	292	374
2797/875G2	1170	875	95	1120	930	24	24	22	22	8	830.1	105	70	0.35	276	297
2797/955G	1200	95	90	1160	1000	36	18	18	18	8	908.8	115	72	0.3	254	245
2797/955G2	1200	95	90	1160	1000	36	18	18	18	8	908.8	115	72	0.3	254	245
2797/1010G2	1200	1010	90	1160	1041	36	20	22	M20	10	962	97	72	0.6	254	199
2797/1010GK	1200	1010	90	1160	1041	36	20	22	M20	10	962	97	72	0.6	254	199
2797/1278G2	1595	1278	120	1535	1335	36	36	26	26	12	1221	103	90	0.35	398	585
2792/1400G2K	1715	1400	110	1660	1460	40	40	26	M24	10	1330	135	90	0	597	587
2792/2000G2	2420	2000	160	2350	2070	48	48	33	M30	14	1914	138	120	0.3	1084	1607
2792/2240G	2670	2240	160	2600	2320	54	54	35	M36	16	2155	136	120	0.3	1441	1798
2797/2680G	3325	2680	300	3242	2754	32	32	33	33	16	2592	164	180	0	3587	2320
2797/2680GY	3325	2680	300	3242	2754	48	48	33	33	16	2592	164	180	0	3587	6320
2797/2680GK	3325	2680	300	3242	2754	32	32	33	33	16	2592	164	180	0	3035	6641

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## Cross Roller Slewing Bearing

### No Gear



Technical Data:

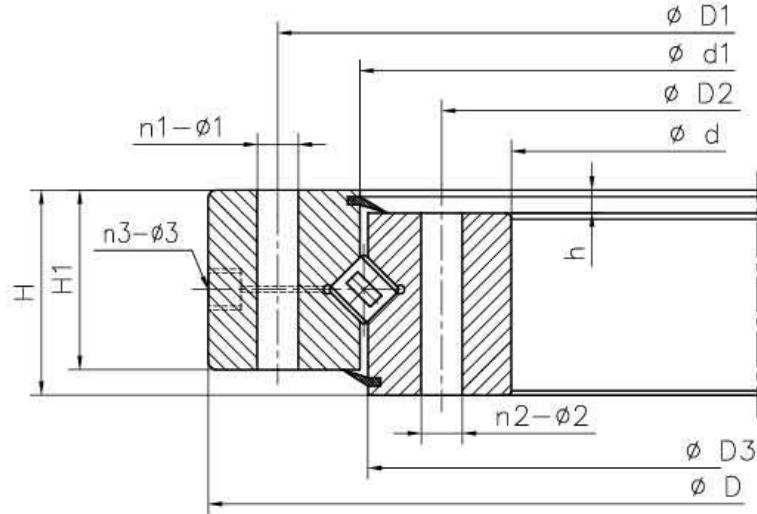
Designation	Dimensions			Mounting Hole Size						Basic Load ratings			Weight
	D	d	H	D1	D2	n1	n2	φ1	φ2	Coa 10kN			
79764	550	320	85	515	365	12	8	17	18	88.2			85.6
797/600G2	900	600	125	848	690	30	29	26	M24	280			246
797/670	907	670	85	870	730	12	8	M16	18	165			170
797/700G	1000	700	140	940	770	24	24	M20	22	254			370
797/845G2	1150	845	130	1100	895	24	24	22	22	401			393
797/870G	1180	870	115	1125	920	18	18	28	28	292			355
797/870K	1180	870	115	1125	920	18	18	28	28	232			355
797/870G2K1	1180	870	115	1125	920	18	18	28	28	320			356
797/962G2	1200	962	90	--	--	--	--	--	--	254			224
792/1000G2	1270	1000	100	1220	1050	36	36	19	19	333			303
792/1000G2K	1270	1000	100	1220	1050	36	36	19	19	333			303
792/1000G2K1	1270	1000	100	1220	1050	36	36	19	19	333			303
792/1000G2K2	1270	1000	100	1220	1050	36	36	19	19	333			303
797/1060G2	1400	1060	120	--	--	--	--	--	--	429			596
797/1200G2	1520	1200	90	--	--	--	--	--	--	409			504
792/1250G2	1700	1250	155	1650	1330	24	24	26	26	602			1103

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## Cross Roller Slewing Bearing

No Gear



Technical Data:

Designation	Dimensions			Mounting Hole Size						Basic Load ratings		Weight
	D	d	H	D1	D2	n1	n2	φ1	φ2	Coa 10kN	kg	
797/1250G2	1608	1250	148	1512	1297	16	16	25	25	595	743	
797/1250G2K	1608	1250	148	1512	1297	16	16	25	25	595	717	
797/1278G2K	1660	1278	120	1535	1335	18	18	26	26	427	589	
797/1320G2	1715	1320	134	—	—	—	—	—	—	607	958	
797/1370G	1840	1370	160	1770	1430	30	24	28	28	997	1213	
797/1380G2	1700	1380	145	1650	1440	24	24	27	27	461	746	
3-944G2	1680	1412	170	—	1460	—	24	—	18	617	725	
3-944G2K	1680	1412	170	—	1460	—	24	—	18	576	723	
3-944G2K1	1680	1412	185	—	1460	—	24	—	18	576	759	
797/1600G	2140	1600	145	1940	1710	48	48	26	26	896	1357	
797/1776G2	2210	1776	150	2105	1840	36	36	26	26	1113	1244	
797/1860G2	2320	1860	151	2245	1980	42	42	33	33	890	1772	
797/1916G2	2320	1916	150	2245	1980	42	42	34	34	1195	1214	
797/2190G	2860	2190	300	2800	2270	36	36	32	32	3035	4797	
797/2500G2	2980	2500	180	2910	2590	48	48	33	33	1760	2913	
792/2800G	3310	2800	190	3220	2890	60	60	39	39	2117	2864	

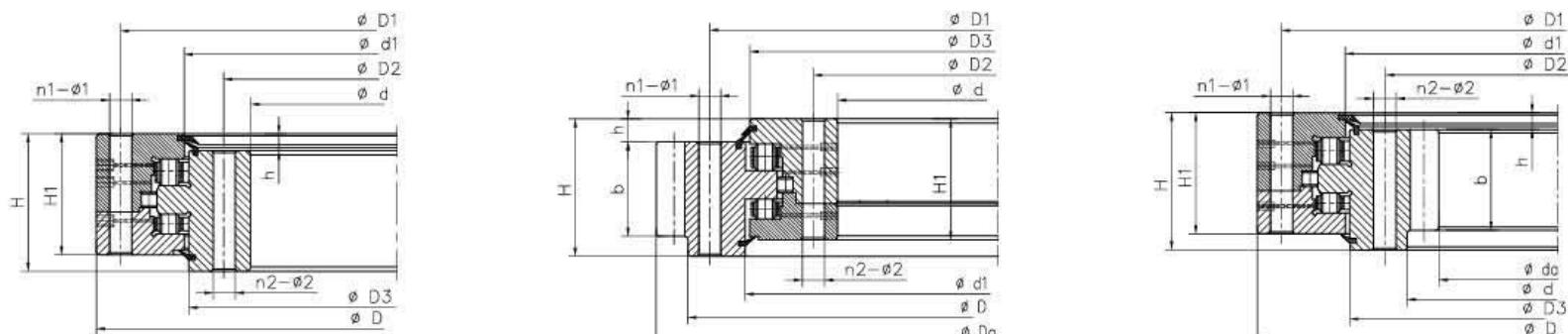
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## Three-Row Roller Slewing Bearing

Three-Row Roller Slewing Bearing is made from three rings, radial raceway, up and down rings are separate. Three-Row Roller Slewing Bearing can bear axial force, radial integrated force, carrying capacity of this kind slewing bearing is the best in various structure slewing bearings, axial sizes and radial sizes are rather large, compact form.

Customers can select inner gear type or outer gear type Single Row Four Point Contact Ball Slewing Bearings according to the different application, it is easy to use and install.

Three-Row Roller Slewing Bearing is especially used in bucket wheel excavators, wheel cranes, ship cranes, port cranes, ladle turret and large-tonnage truck cranes, etc.



Technical Data:

Designation			Dimensions			Mounting Hole Size			Gear Data						Basic Load ratings		Weight		
No Gear	External Gear	Internal Gear	D	d	H	D1	D2	n	φ	m	Da	Z	da	Z	b	x	Coa 10kN	Cor 10kN	kg
130.25.500	131.25.500	133.25.500	634	366	148	598	402	24	18	5	665	130	335	68	80	0.5	275	35.5	224
	132.25.500	134.25.500	634	366	148	598	402	24	18	6	666	108	336	57	80	0.5	275	35.5	224
130.25.560	131.25.560	133.25.560	694	426	148	658	462	24	18	5	725	142	395	80	80	0.5	308	39.9	240
	132.25.560	134.25.560	694	426	148	658	462	24	18	6	726	118	396	67	80	0.5	308	39.9	240
130.25.630	131.25.630	133.25.630	764	496	148	728	532	28	18	6	810	132	456	77	80	0.5	345	45.1	270
	132.25.630	134.25.630	764	496	148	728	532	28	18	8	808	98	456	58	80	0.5	345	45.1	270
130.25.710	131.25.710	133.25.710	844	576	148	808	612	28	18	6	888	145	534	90	80	0.5	388	51.7	300
	132.25.710	134.25.710	844	576	148	808	612	28	18	8	888	108	536	68	80	0.5	388	51.7	300
130.32.800	131.32.800	133.32.800	964	636	182	920	680	36	22	8	1008	123	592	75	120	0.5	549	71.2	500
	132.32.800	134.32.800	964	636	182	920	680	36	22	10	1010	98	590	60	120	0.5	549	71.2	500

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Technical Data:

Designation			Dimensions			Mounting Hole Size			Gear Data							额定负 Basic Load ratings		Weight	
No Gear	External Gear	Internal Gear	D	d	H	D1	D2	n	φ	m	Da	Z	da	Z	b	x	Coa 10kN	Cor 10kN	kg
130.32.900	131.32.900	133.32.900	1064	736	182	1020	780	36	22	8	1104	135	688	87	120	0.5	619	80.8	600
	132.32.900	134.32.900	1064	736	182	1020	780	36	22	10	1110	108	690	70	120	0.5	619	80.8	600
130.32.1000	131.32.1000	133.32.1000	1164	836	182	1120	880	40	22	10	1220	119	780	79	120	0.5	689	90.3	680
	132.32.1000	134.32.1000	1164	836	182	1120	880	40	22	12	1224	99	780	66	120	0.5	689	90.3	680
130.32.1120	131.32.1120	133.32.1120	1284	956	182	1240	1000	40	22	10	1340	131	900	91	120	0.5	768	102	820
	132.32.1120	134.32.1120	1284	956	182	1240	1000	40	22	12	1344	109	900	76	120	0.5	768	102	820
130.40.1250	131.40.1250	133.40.1250	1445	1055	220	1393	1107	45	26	12	1512	123	984	83	150	0.5	1110	146	1200
	132.40.1250	134.40.1250	1445	1055	220	1393	1107	45	26	14	1512	105	980	71	150	0.5	1110	146	1200
130.40.1400	131.40.1400	133.40.1400	1595	1205	220	1543	1257	45	26	12	1668	136	1140	96	150	0.5	1240	165	1300
	132.40.1400	134.40.1400	1595	1205	220	1543	1257	45	26	14	1666	116	1134	82	150	0.5	1240	165	1300
130.40.1600	131.40.1600	133.40.1600	1795	1405	220	1743	1457	48	26	14	1876	131	1330	96	150	0.5	1420	190	1520
	132.40.1600	134.40.1600	1795	1405	220	1743	1457	48	26	16	1872	114	1328	84	150	0.5	1420	190	1520
130.40.1800	131.40.1800	133.40.1800	1995	1605	220	1943	1657	48	26	14	2072	145	1526	110	150	0.5	1590	215	1750
	132.40.1800	134.40.1800	1995	1605	220	1943	1657	48	26	16	2080	127	1520	96	150	0.5	1590	215	1750
130.45.2000	131.25.2000.03		2195	1816	150	2127	1885	60	33	16	2267	138	—	—	105	0.9	1690	66.3	1120
	131.45.2000.04		2221	1779	231	2155	1845	60	33	16	2304	141	1696	107	160	0.5	2050	239	2230
	131.45.2000	133.45.2000	2221	1779	231	2155	1845	60	33	16	2304	141	1696	107	160	0.5	2050	239	2400
	132.45.2000	134.45.2000	2221	1779	231	2155	1845	60	33	18	2304	125	1692	95	160	0.5	2050	239	2400
130.45.2240	131.45.2240	133.45.2240	2461	2019	231	2395	2085	60	33	16	2560	157	1920	121	160	0.5	2310	268	2700
	132.45.2240	134.45.2240	2461	2019	231	2395	2085	60	33	18	2556	139	1926	108	160	0.5	2310	268	2700
130.45.2500	131.45.2500	133.45.2500	2721	2279	231	2655	2345	72	33	18	2826	154	2178	122	160	0.5	2580	302	3000
	132.45.2500	134.45.2500	2721	2279	231	2655	2345	72	33	20	2820	138	2180	110	160	0.5	2580	302	3000
130.45.2800	131.45.2800	133.45.2800	3021	2579	231	2955	2645	72	33	18	3114	170	2484	139	160	0.5	2880	339	3400
	132.45.2800	134.45.2800	3021	2579	231	2955	2645	72	33	20	3120	153	2480	125	160	0.5	2880	339	3400
130.50.3150	131.50.3150	133.50.3150	3432	2868	270	3342	2958	72	45	20	3540	174	2760	139	180	0.5	3590	381	5000
	132.50.3150	134.50.3150	3432	2868	270	3342	2958	72	45	22	3542	158	2750	126	180	0.5	3590	381	5000
130.50.3550	131.50.3550	133.50.3550	3832	3268	270	3742	3358	72	45	20	3940	194	3160	159	180	0.5	4040	431	5600
	132.50.3550	134.50.3550	3832	3268	270	3742	3358	72	45	22	3938	176	3146	144	180	0.5	4040	431	5600
130.50.4000	131.50.4000	133.50.4000	4280	3718	270	4192	3808	80	45	22	4400	197	3608	165	180	0.5	4560	487	6400
	132.50.4000	134.50.4000	4280	3718	270	4192	3808	80	45	25	4400	173	3600	145	180	0.5	4560	487	6400
130.50.4500	131.50.4500	133.50.4500	4782	4218	270	4692	4308	80	45	22	4906	220	4114	188	185	0.5	5445	580	6942
	132.50.4500	134.50.4500	4782	4218	270	4692	4308	80	45	25	4900	193	4100	165	185	0.5	5445	580	6942

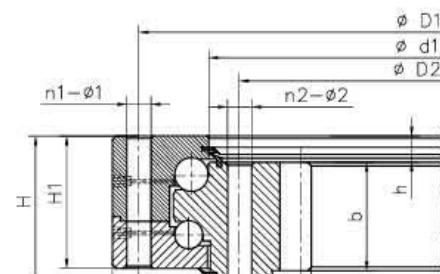
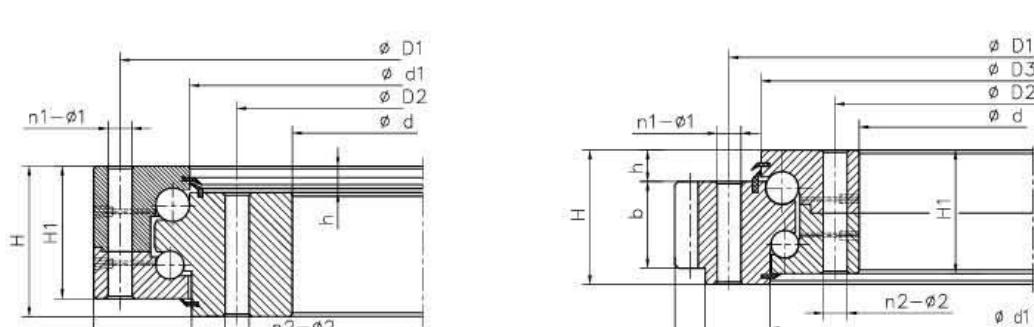


## Double-Row Ball With Different Diameter Bearing

Double-Row Ball With Different Diameter Bearing is made from 3 rings, steel balls and separators can be arranged in the raceway directly, according to the different load-carrying capability status, disposed up and down two row balls with different diameter. This kind of open installation is very convenient, as per different loading, angles of the circular arc up and down can be changed accordingly. Double-Row Ball With Different Diameter Bearing can bear very large axial force and overturning moment.

The raceway should be special designing while the radial force is greater 0.1 time than the axial force. Double-Row Ball With Different Diameter Bearing of axial sizes and radial sizes are rather large, compact form.

Double-Row Ball With Different Diameter Slewing Bearing is especially used in loading and unloading machines above the average diameter, such as tower cranes, ship cranes, truck cranes and so on.



Technical Data:

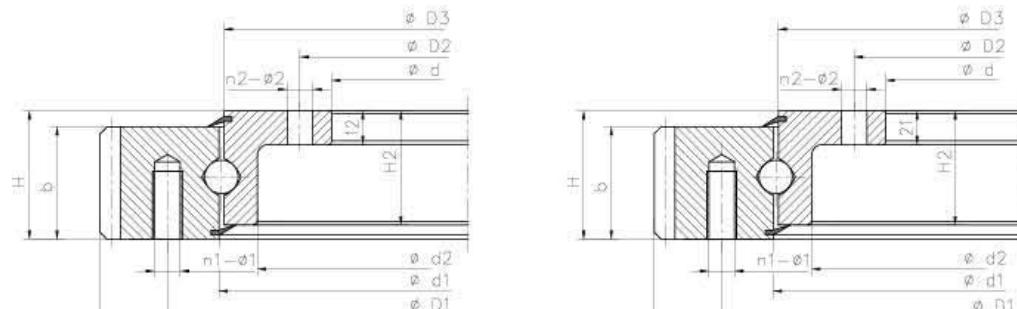
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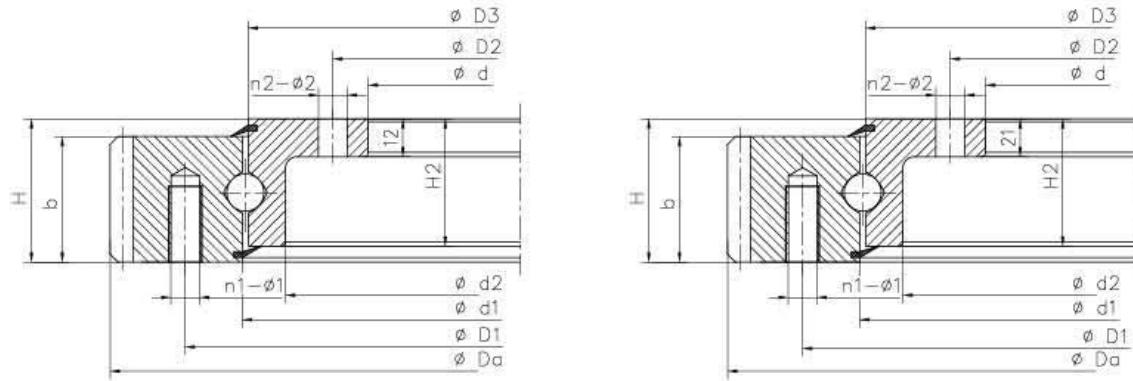
Designation			Dimensions			Mounting Hole Size				Gear Data							Basic load Ratings	Weight
No Gear	External Gear	Internal Gear	D	d	H	D1	D2	n	φ	m	Da	Z	da	Z	b	x	Coa 10kN	kg
020.30.900	021.30.900	023.30.900	1042	758	124	998	802	30	22	8	1088	133	712	90	80	0.5	258	250
	022.30.900	024.30.900	1042	758	124	998	802	30	22	10	1090	106	710	72	80	0.5	258	250
020.30.1000	021.30.1000	023.30.1000	1142	858	124	1098	902	36	22	10	1200	117	810	82	80	0.5	286	300
	022.30.1000	024.30.1000	1142	858	124	1098	902	36	22	12	1200	97	792	67	80	0.5	286	300
020.30.1120	021.30.1120	023.30.1120	1262	978	124	1218	1022	36	22	10	1320	129	920	93	80	0.5	321	340
	022.30.1120	024.30.1120	1262	978	124	1218	1022	36	22	12	1320	107	912	77	80	0.5	321	340
020.40.1250	021.40.1250	023.40.1250	1426	1074	160	1374	1126	40	26	12	1500	122	1008	85	90	0.5	482	580
	022.40.1250	024.40.1250	1426	1074	160	1374	1126	40	26	14	1498	104	1008	73	90	0.5	482	580
020.40.1400	021.40.1400	023.40.1400	1576	1224	160	1524	1272	40	26	12	1644	134	1152	97	90	0.5	543	650
	022.40.1400	024.40.1400	1576	1224	160	1524	1272	40	26	14	1652	115	1148	83	90	0.5	543	650
020.40.1600	021.40.1600	023.40.1600	1776	1424	160	1724	1476	45	26	14	1848	129	1344	97	90	0.5	620	750
	022.40.1600	024.40.1600	1776	1424	160	1724	1476	45	26	16	1856	113	1344	85	90	0.5	620	750
020.40.1800	021.40.1800	023.40.1800	1976	1624	160	1924	1676	45	26	14	2058	144	1540	111	90	0.5	692	820
	022.40.1800	024.40.1800	1976	1624	160	1924	1676	45	26	16	2064	126	1536	97	90	0.5	692	820
020.50.2000	021.50.2000	023.50.2000	2215	1785	190	2149	1851	48	33	16	2304	141	1696	107	120	0.5	987	1150
	022.50.2000	024.50.2000	2215	1785	190	2149	1851	48	33	18	2304	125	1692	95	120	0.5	987	1150
020.50.2240	021.50.2240	023.50.2240	2455	2025	190	2389	2091	48	33	16	2544	156	1936	122	120	0.5	1110	1500
	022.50.2240	024.50.2240	2455	2025	190	2389	2091	48	33	18	2556	139	1926	108	120	0.5	1110	1500
020.50.2500	021.50.2500	023.50.2500	2715	2285	190	2649	2351	56	33	18	2804	153	2196	123	120	0.5	1110	1500
	022.50.2500	024.50.2500	2715	2285	190	2649	2351	56	33	20	2820	138	2180	110	120	0.5	1110	1500
020.50.2800	021.50.2800	023.50.2800	3015	2585	190	2949	2651	56	33	18	3114	170	2484	139	120	0.5	1390	1900
	022.50.2800	024.50.2800	3015	2585	190	2949	2651	56	33	20	3120	153	2480	125	120	0.5	1390	1900
020.60.3150	021.60.3150	023.60.3150	3428	2872	226	3338	2962	56	45	20	3540	174	2760	139	150	0.5	1870	3300
	022.60.3150	024.60.3150	3428	2872	226	3338	2962	56	45	22	3542	158	2750	126	150	0.5	1870	3300
020.60.3550	021.60.3550	023.60.3550	3828	3272	226	3738	3362	56	45	20	3940	194	3160	159	150	0.5	2110	3700
	022.60.3550	024.60.3550	3828	3272	226	3738	3362	56	45	22	3938	176	3168	145	150	0.5	2110	3700
020.60.4000	021.60.4000	023.60.4000	4278	3722	226	4188	3812	60	45	22	4400	197	3608	165	150	0.5	2370	4200
	022.60.4000	024.60.4000	4278	3722	226	4188	3812	60	45	25	4400	173	3600	145	150	0.5	2370	4200
020.60.4500	021.60.4500	023.60.4500	4778	4222	226	4688	4312	60	45	22	4884	219	4114	188	150	0.5	2670	4700
	022.60.4500	024.60.4500	4778	4222	226	4688	4312	60	45	25	4900	193	4100	165	150	0.5	2670	4700



## Light-Load Four-point contact Ball Slewing Bearing

### External Gear





Technical Data:

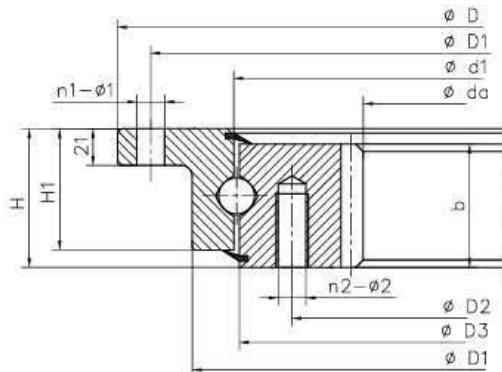
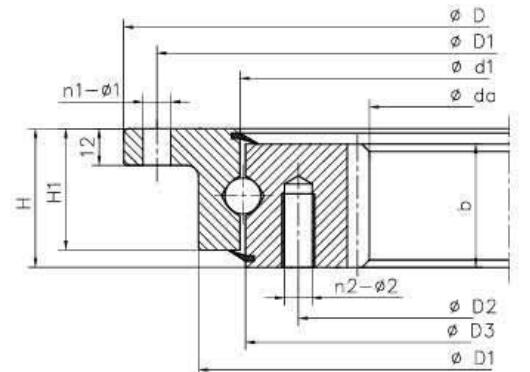
Designation			Dimensions				Mounting Hole Size						Structure dimensions						Gear Data				Coa KN	Weight kg
INA	Rothe Erde	TG	Da	D	d	H	D1	D2	n1	n2	φ1	φ2	d2	b	h	bh	H2	dl	D3	m	z	do	x	
	23121.0675.013		742.8		535	56	685	562	16	16	M12	18		45.5	10.5	45.5	45.5	647	642.5	6	122	732	390	47.6
VLA200744N ZT			838.1		634	56	785	662	18	16	M12	φ18	699.5	44.5	8.5	47.5	44.5	745.5	742.5	6	138	828	1050	56
VLA 200744N			838.1		634	56	785	662	18	16	M12	18		44.5	11.5	47.5	44.5	745.5	742.5	6	138	828	530	54.5
	23120.0700.013		838.8		634	56	785	662	18	16	M12	18		45.5	10.5	45.5	45.5	745.5	742.5	6	138	828	450	53.5
	23120.0700.503		838.8		634	56	785	662	18	32	M12	18		45.5	10.5	45.5	45.5	745.5	742.5	6	138	828	450	53.1
	E.850.20.00.C	838.8		634	56	785	662	18	16	M12	φ18	705	46	10	46	46	745.5	742.5	6	138	828	910	60	
	23121.0775.013		838.8		635	56	785	662	18	16	M12	18		45.5	10.5	45.5	45.5	747	742.5	6	138	828	450	53.5
VLA200844N ZT			950.1		734	56	885	762	18	18	M12	φ18	799.5	44.5	8.5	47.5	44.5	845.5	842.5	8	117	936	1200	66.4
VLA 200844N			950.1		734	56	885	762	18	18	M12	18		44.5	11.5	47.5	44.5	845.5	842.5	8	117	936	600	65.5
	23120.0800.013		950.4		734	56	885	762	18	18	M12	18		45.5	10.5	45.5	45.5	845.5	842.5	8	117	936	510	65.1
	23120.0800.503		950.4		734	56	885	762	18	36	M12	18		45.5	10.5	45.5	45.5	845.5	842.5	8	117	936	510	64.7
	E.950.20.00.C	950.4		734	56	885	762	18	18	M12	φ18	805	46	10	46	46	845.5	842.5	8	117	936	1030	72.3	
	23121.0875.013		950.4		735	56	885	762	18	18	M12	18		45.5	10.5	45.5	45.5	847	842.5	8	117	936	510	65.1
VLA 300955N			1096		805	90	1016	845	30	30	M20	22		71	19	71	71	953	957	9	120	1080	2550	170
	28130.0900.013		1096.2		805	90	1016	845	30	30	M20	22		71	19	71	71	953.5	956.5	9	120	1080	1750	165
	28130.0900.013		1096.2		805	90	1016	845	30	30	M20	φ22	893	71	19	71	71	953.5	956.5	9	120	1080	2150	144
	E.1100.32.00.C	1098		805	90	1016	845	30	30	M20	φ22	893	71	19	71	71	955	955	9	120	1080	2230	165	
	28130.0975.013		1096.2		807	90	1016	845	30	30	M20	22		71	19	71	71	955	956.5	9	120	1080	1750	165
VLA200944N ZT			1046.1		834	56	985	862	20	20	M12	φ18	899.5	44.5	8.5	47.5	44.5	945.5	942.5	8	129	1032	1350	72.4
VLA 200944N			1046.1		834	56	985	862	20	20	M12	18		44.5	11.5	47.5	44.5	945.5	942.5	8	129	1032	670	71.5

Technical Data:

Designation			Dimensions				Mounting Hole Size						Structure dimensions						Gear Data				Coa KN	Weight kg
INA	Rothe Erde	TG	Da	D	d	H	D1	D2	n1	n2	φ1	φ2	d2	b	h	bh	H2	dl	D3	m	z	do	x	
	23120.0900.013		1046.4		834	56	985	862	20	20	M12	18		45.5	10.5	45.5	45.5	845.5	942.5	8	129	1032	570	69.6
	23120.0900.503		1046.4		834	56	985	862	20	40	M12	18		45.5	10.5	45.5	45.5	845.5	942.5	8	129	1032	570	69.1
	E.1050.20.00.C	1046.4		834	56	985	862	20	20	M12	φ18	905	46	10	46	46	945.5	942.5	8	129	1032	1440	82.3	
	23121.0975.013		1046.4		835	56	985	862	20	20	M12	18		45.5	10.5	45.5	45.5	947	942.5	8	129	1032	570	69.6
VLA 301055N			1198		905	90	1116	945	30	30	M20	22		71	19	71	71	1053.5	1056.5	10	118	1180	1840	183
			1198		905	90	1116	945	30	30	M20	22		71	19	71	71	1053	1057	10	118	1180	2800	188
	E.1200.32.00.C	1200		905	90	1116	945	30	30	M20	φ22	993	71	19	71	71	1055	1055	10	118	1180	2500	183	
	28130.1075.013		1198		907	90	1116	945	30	30	M20	22		71	19	71	71	1055	1056.5	10	118	1180	1840	183
VLA201094N ZT			1198.1		984	56	1135	1012	22	20	M12	φ18	1049.5	44.5	8.5	47.5	44.5	1						

# Light-Load Four-point contact Ball Slewing Bearing

## Internal Gear



Technical Data:

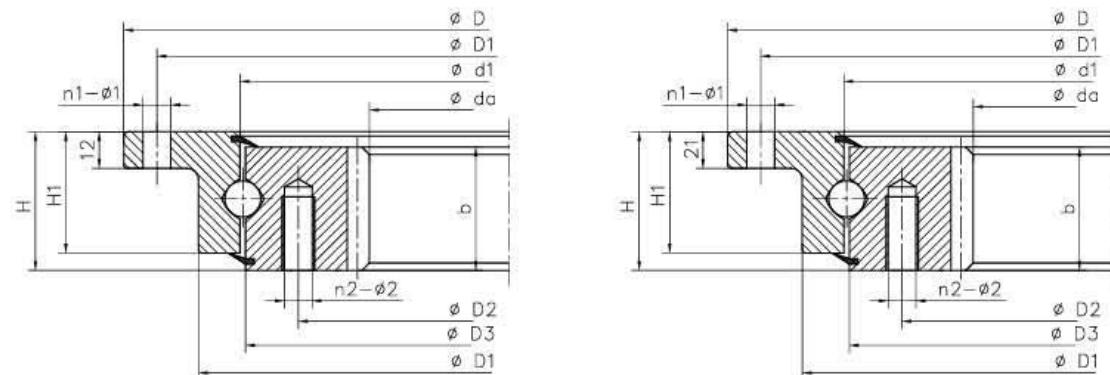
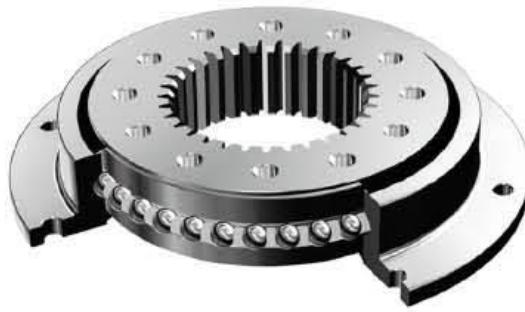
Designation			Dimensions			Mounting Hole Size						Structure dimensions						Gear Data				Coa KN	Weight kg	
INA	Rothe Erde	TG	Da	D	d	H	D1	D2	n1	n2	phi1	phi2	d2	b	h	bh	H2	d1	D3	m	z	do	x	
VLE200414N ZT			325	518	350	56	490	375	8	12	phi 18	M12	458.5	40	11.5	44.5	47.5	415.5	412.5	5	67	335	600	28.5
VLI 20 0414N ZT RL2			325	516	350	56	490	375	8	12	phi 18	M12	456	40	11.5	44.5	47.5	415.5	412.5	5	67	335	300	36.3
VLI200414N			325	518	350	56	490	375	8	12	18	M12		40	8.5	44.5	47.5	415.5	412.5	5	67	335	295	27.5
232.20.0400.013			326.5	518		56	490	375	8	12	18	M12		45.5	10.5	45.5	45.5	415.5	412.5	5	67	335	250	27.1
232.20.0400.503			326.5	518		56	490	375	16	12	18	M12		45.5	10.5	45.5	45.5	415.5	412.5	5	67	335	250	26.9
232.21.0475.013			326.5	517		56	490	375	8	12	18	M12		45.5	10.5	45.5	45.5	415.5	411	5	67	335	250	27.1
	I.505.20.00.C	326.5	518			56	490	375	8	12	phi 18	M12	453	46	10	46	46	415.5	412.5	5	67	335	500	35.4
VLE200544N ZT			444	648		56	620	505	10	16	phi 18	M12	588.5	44.5	11.5	44.5	47.5	545.5	542.5	6	76	456	790	40.6
VLI200544N			444	648		56	620	505	10	16	18	M12		44.5	11.5	44.5	47.5	545.5	542.5	6	76	456	385	38
232.20.0500.013			445.2	648		56	620	505	10	16	18	M12		45.5	10.5	45.5	45.5	545.5	542.5	6	76	456	330	36.9
232.20.0500.503			445.2	648		56	620	505	20	16	18	M12		45.5	10.5	45.5	45.5	545.5	542.5	6	76	456	330	36.7
232.21.0575.013			445.2	647		56	620	505	10	16	18	M12		45.5	10.5	45.5	45.5	545.5	541	6	76	456	330	36.9
	I.650.20.00.C	445.2	648			56	620	505	10	16	phi 18	M12	583	46	10	46	46	545.5	542.5	6	76	456	700	40.2
VLE200644N ZT			546	748		56	720	605	12	18	phi 18	M12	688.5	44.5	11.5	44.5	47.5	645.5	642.5	6	93	558	900	47.4
VLI200644N			546	748		56	720	605	12	18	18	M12		44.5	8.5	44.5	47.5	645.5	642.5	6	93	558	455	45
232.20.0600.013			547.2	748		56	720	605	12	18	18	M12		45.5	10.5	45.5	45.5	645.5	642.5	6	93	558	390	43.7
232.20.0600.503			547.2	748		56	720	605	24	18	18	M12		45.5	10.5	45.5	45.5	645.5	642.5	6	93	558	390	43.4
232.21.0675.013			547.2	747		56	720	605	12	18	18	M12		45.5	10.5	45.5	45.5	645.5	641	6	93	558	390	43.7

Technical Data:

Designation			Dimensions			Mounting Hole Size						Structure dimensions						Gear Data				Coa KN	Weight kg	
INA	Rothe Erde	TG	Da	D	d	H	D1	D2	n1	n2	phi1	phi2	d2	b	h	bh	H2	d1	D3	m	z	do	x	
	I.750.20.00.C	547.2	748			56	720	605	12	18	phi 18	M12	683	46	10	46	46	645.5	642.5	6	93	558	780	53.3
VLE200744N ZT			648	848		56	820	705	12	20	phi 18	M12	788.5	44.5	11.5	44.5	47.5	745.5	742.5	6	110	660	530	54
VLI200744N			648	848		56	820	705	12	20	18	M12		44.5	8.5	44.5	47.5	745.5	742.5	6	110	660	530	51.5
232.20.0700.013			649.2	848		56	820	705	12	20	18	M12		45.5	10.5	45.5	45.5	745.5	742.5	6	110	660	450	51.1
232.20.0700.503			649.2	848		56	820	705	24	20	18	M12		45.5	10.5	45.5	45.5	745.5	742.5	6	110	660	450	50.8
232.21.0775.013			649.2	847		56	820	705	12	20	18	M12		45.5	10.5	45.5	45.5	745.5	741	6	110	660	450	51.1
	I.850.20.00.C	649.2	848			56	820	705	12	20	phi 18	M12	783	46	10	46	46	745.5	742.5	6	110	660	910	63.1
VLE200844N ZT			736	948		56	920	805	14	20	phi 18	M12	888.5	44.5	11.5	44.5	47.5	845.5	842.5	8	94	752	1200	65.2
VLI200844N			736	948		56	920	805	14	20	18	M12		44.5	8.5	44.5	47.5	845.5	842.5	8	94	752	600	61.5
232.20.0800.013			737.6	948		56	920	805	14	20	18	M12		45.5	10.5	45.5								

## Light-Load Four-point contact Ball Slewing Bearing

### Internal Gear



Technical Data:

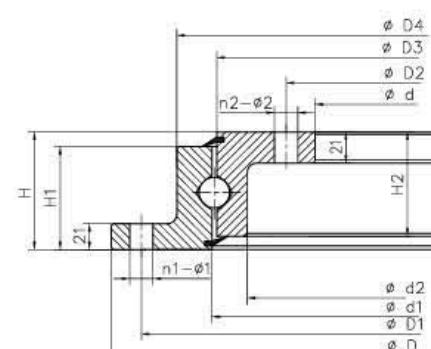
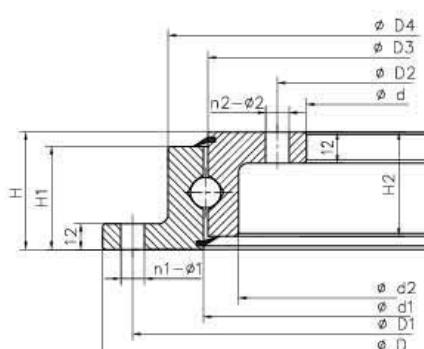
Designation			Dimensions				Mounting Hole Size					Structure dimensions						Gear Data				Coa KN	Weight kg		
INA	Rothe Erde	TG	Da	D	d	H	D1	D2	n1	n2	φ1	φ2	d2	b	h	bh	H2	d1	D3	m	z	do	x		
		I.1200.20.00.C	985.6	1198		56	1170	1055	16	24	φ18	M12	1133	46	10	46	46	1095.5	1092.5	8	125	1000	1700	101	
VLI301155N			1010	1300		90	1260	1094	36	36	22	M20*40		71	19	71	71	1153	1157	10	103	1030	3100	198	
	282.30.1100.013		1012	1300		90	1260	1094	36	36	22	M20		71	19	71	71	1153.5	1156.5	10	103	1030	1900	192	
	282.30.1175.013		1012	1298		90	1260	1094	36	36	22	M20		71	19	71	71	1153.5	1155	10	103	1030	1900	192	
		I.1300.32.00.C	1012	1300		90	1260	1094	36	36	φ12	M20	1217	71	19	71	71	1155	1155	10	103	1030	2700	192	
VLI301255N			1110	1400		90	1360	1194	42	42	22	M20*40		71	19	71	71	1253	1257	10	113	1130	3350	215	
	282.30.1200.013		1112	1400		90	1360	1194	42	42	22	M20		71	19	71	71	1253.5	1256.5	10	113	1130	1950	208	
	282.30.1275.013		1112	1398		90	1360	1194	42	42	22	M20		71	19	71	71	1253.5	1255	10	113	1130	1950	208	
		I.1400.32.00.C	1112	1400		90	1360	1194	42	42	φ12	M20	1317	71	19	71	71	1255	1255	10	113	1130	3000	208	
VLI301355N			1210	1500		90	1460	1294	42	42	22	M20*40		71	19	71	71	1353	1357	10	123	1230	3600	233	
	282.30.1300.013		1212	1500		90	1460	1294	42	42	22	M20		71	19	71	71	1353.5	1356.5	10	123	1230	2000	226	
	282.30.1375.013		1212	1498		90	1460	1294	42	42	22	M20		71	19	71	71	1353.5	1355	10	123	1230	2000	226	
		I.1500.32.00.C	1212	1500		90	1460	1294	42	42	φ12	M20	1417	71	19	71	71	1355	1355	10	123	1230	3200	226	
	282.30.1400.013		1310	1600		90	1560	1394	48	48	22	M20		71	19	71	71	1453.5	1456.5	10	133	1330	2050	243	
	282.30.1475.013		1310	1598		90	1560	1394	48	48	22	M20		71	19	71	71	1453.5	1455	10	133	1330	2050	243	
VLI301455N			1310	1600		90	1560	1394	48	48	φ12	M20	1517	71	19	71	71	1455	1455	10	133	1330	3380	243	
			1310	1600		90	1560	1394	48	48	22	M20*40		71	19	71	71	1453	1457	10	133	1330	4000	251	



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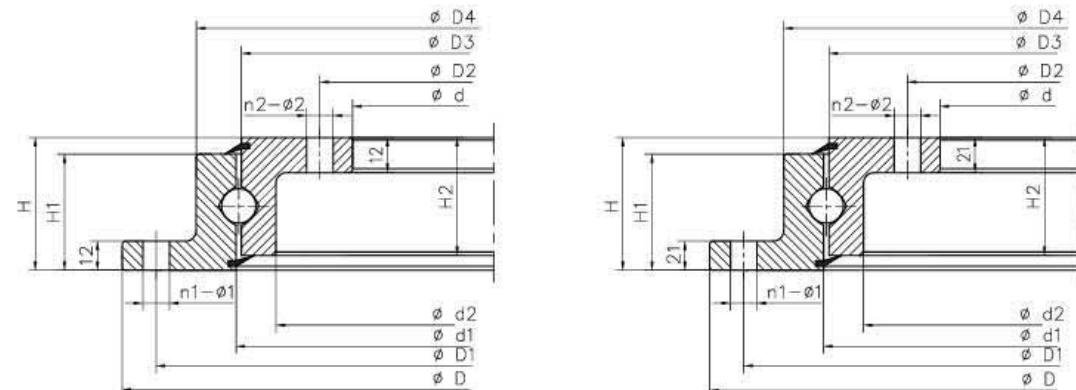
## Light-Load Four-point contact Ball Slewing Bearing

### No Gear



Technical Data:

Designation			Dimensions				Mounting Hole Size					Structure dimensions						Basic load Ratings			Weight
INA	Rothe Erde	TG	D	d	H	D1	D2	n1	n2	φ1	φ2	D4	d2	H1	H2	d1	D3	Coa kN	kg		
	230.20.0400.013		518	304	56	490	332	8	12	18	18			45.5	45.5	415.5	412.5	250	23.4		
	230.20.0400.503		518	304	56	490	332	16	24	18	18			45.5	45.5	415.5	412.5	250	23		
		SD.505.20.00.C	518	304	56	490	332	8	12	18	φ18	453	375	46	46	415.5	412.5	500	24.3		
VLU200414ZT			518	304	56	490	332	8	12	φ18	φ18	458.5	369.5	47.5	47.5	415.5	412.5	600	26.5		
VLU200414			518	304	56	490	332	8	12	18	18			47.5	47.5	415.5	412.5	295	23.5		
	230.21.0475.013		517	305	56	490	332	8	12	18	18			45.5	45.5	415.5	412.5	250	23.4		
	230.20.0500.013		648	434	56	620	462	10	14	18	18			45.5	45.5	545.5	542.5	330	31		
	230.20.0500.503		648	434	56	620	462	20	28	18	18			45.5	45.5	545.5	542.5	330	30.4		
		SD.650.20.00.C	648	434	56	620	462	10	14	18	φ18	583	505	46	46	545.5	542.5	660	32		
	230.20.0500.013		648	434	56	620	462	20	28	φ18	φ18	583	505	45.5	45.5	545.5	542.5	660	30.4		
VLU200544ZT			648	434	56	620	462	10	14	φ18	φ18	588.5	499.5	47.5	47.5	545.5	542.5	800	35.4		
VLU200544			648	434	56	620	462	10	14	18	18			47.5	47.5	545.5	542.5	385	31		
		SD.650.20.00.C	648	434	56	620	462	10	14	φ18	φ18	583	505	46	46	545.5	542.5</				



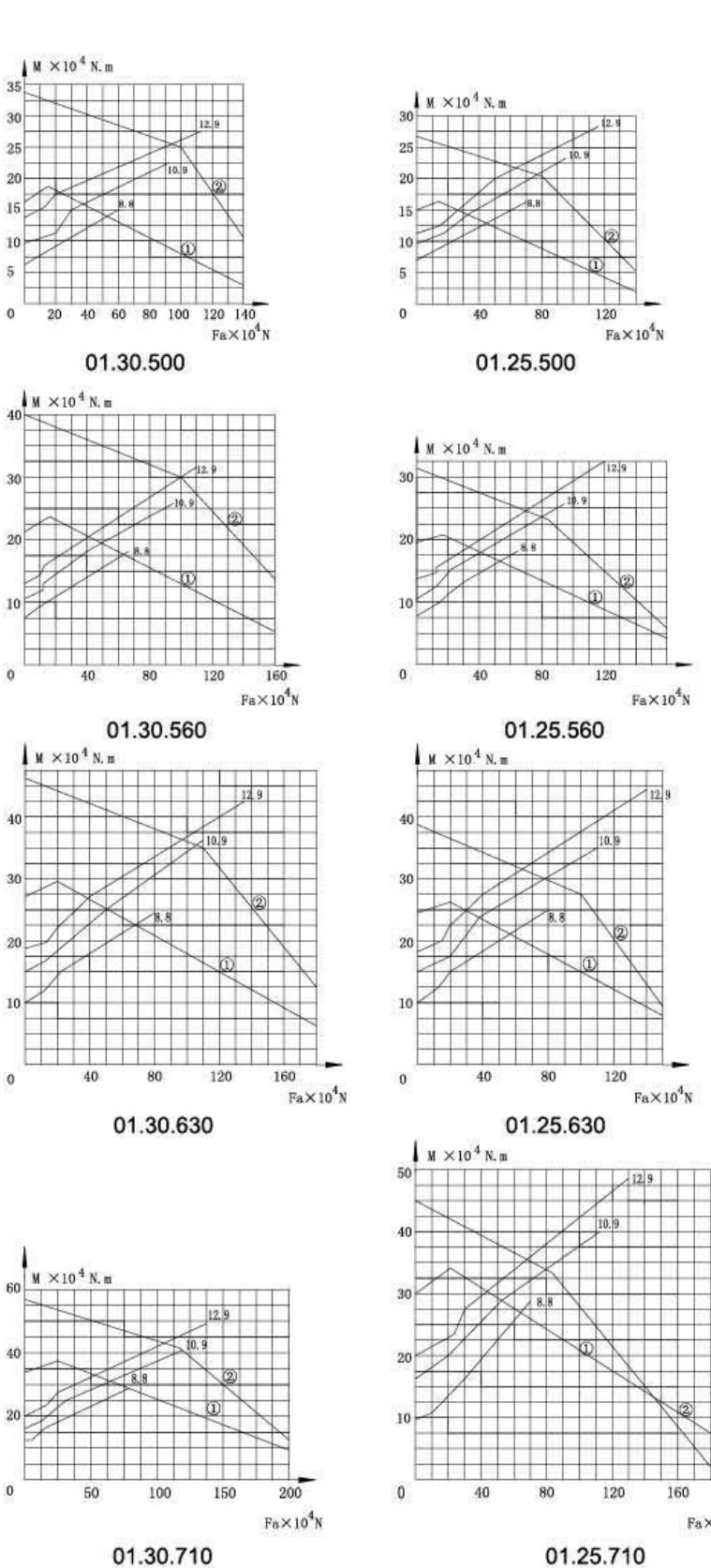
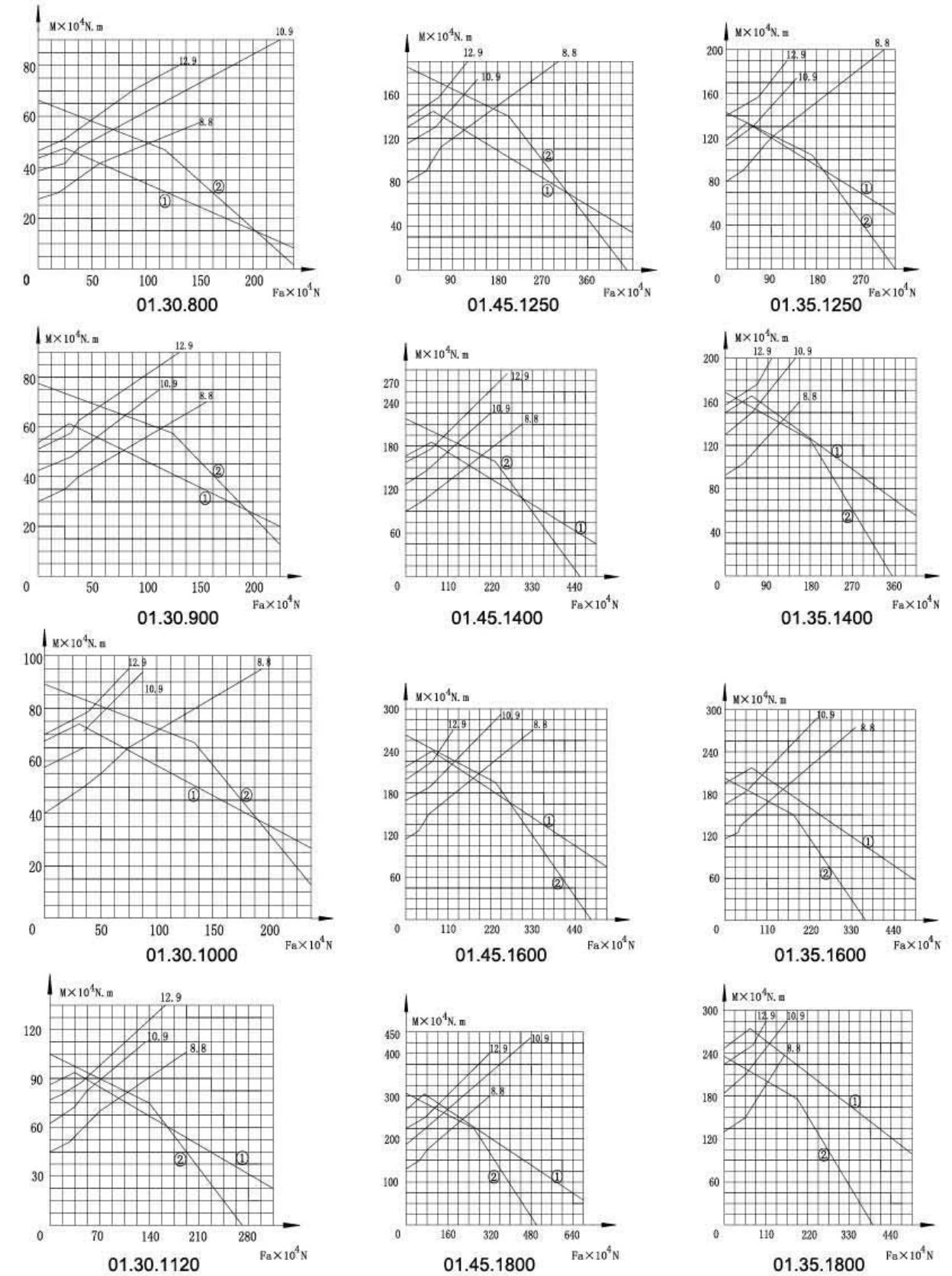
Technical Data:

Designation			Dimensions			Mounting Hole Size						Structure dimensions						Basic load Ratings	Weight
INA	Rothe Erde	TG	D	d	H	D1	D2	n1	n2	φ1	φ2	D4	d2	H1	H2	d1	D3	Coa kN	kg
		SD.750.20.00.C	748	534	56	720	562	12	16	φ 18	φ 18	683	605	46	46	645.5	642.5	460	36.5
	230.21.0675.013		747	535	56	720	562	12	16	18	18			45.5	45.5	645.5	642.5	390	36.4
		SD.750.20.00.C	746	536	56	720	562	12	16	φ 18	φ 18	683	605	46	46	645.5	642.5	780	38
	230.20.0700.013		848	634	56	820	662	12	16	18	18			45.5	45.5	745.5	742.5	450	42.8
	230.20.0700.503		848	634	56	820	662	24	32	18	18			45.5	45.5	745.5	742.5	450	42.2
VLU200744ZT			848	634	56	820	662	12	16	φ 18	φ 18	788.5	699.5	47.5	47.5	745.5	742.5	1050	45
VLU200744			848	634	56	820	662	12	16	18	18			47.5	47.5	745.5	742.5	530	42.5
	230.21.0775.013		847	635	56	820	662	12	16	18	18			45.5	45.5	745.5	742.5	450	42.8
	230.20.0800.013		948	734	56	920	762	14	18	18	18			45.5	45.5	845.5	842.5	510	47.8
	230.20.0800.503		948	734	56	920	762	28	36	18	18			45.5	45.5	845.5	842.5	510	47.1
		SD.950.20.00.C	948	734	56	920	762	14	18	18	φ 18	883	805	46	46	845.5	842.5	1030	50
VLU200844ZT			948	734	56	920	762	14	18	φ 18	φ 18	888.5	799.5	47.5	47.5	845.5	842.5	1200	53.8
VLU200844			948	734	56	920	762	14	18	18	18			47.5	47.5	845.5	842.5	600	48
	230.21.0875.013		947	735	56	920	762	14	18	18	18			45.5	45.5	845.5	842.5	510	47.8
		SD.950.20.00.C	946	736	56	920	762	14	18	φ 18	φ 18	883	805	46	46	845.5	842.5	1030	50
	280.30.0900.013		1100	805	90	1060	845	30	30	22	22			71	71	953.5	956.5	1750	131
	280.30.0900.013		1100	805	90	1060	845	30	30	22	22			71	71	953.5	956.5	1750	131
VLU 300955			1100	805	90	1060	845	30	30	22	22			71	71	953	957	2550	135
		SD.1100.32.00.C	1100	805	90	1060	845	30	30	φ 22	φ 22	1017	893	71	71	955	955	2250	131
	280.30.0975.013		1098	807	90	1060	845	30	30	22	22			71	71	953.5	956.5	1750	131

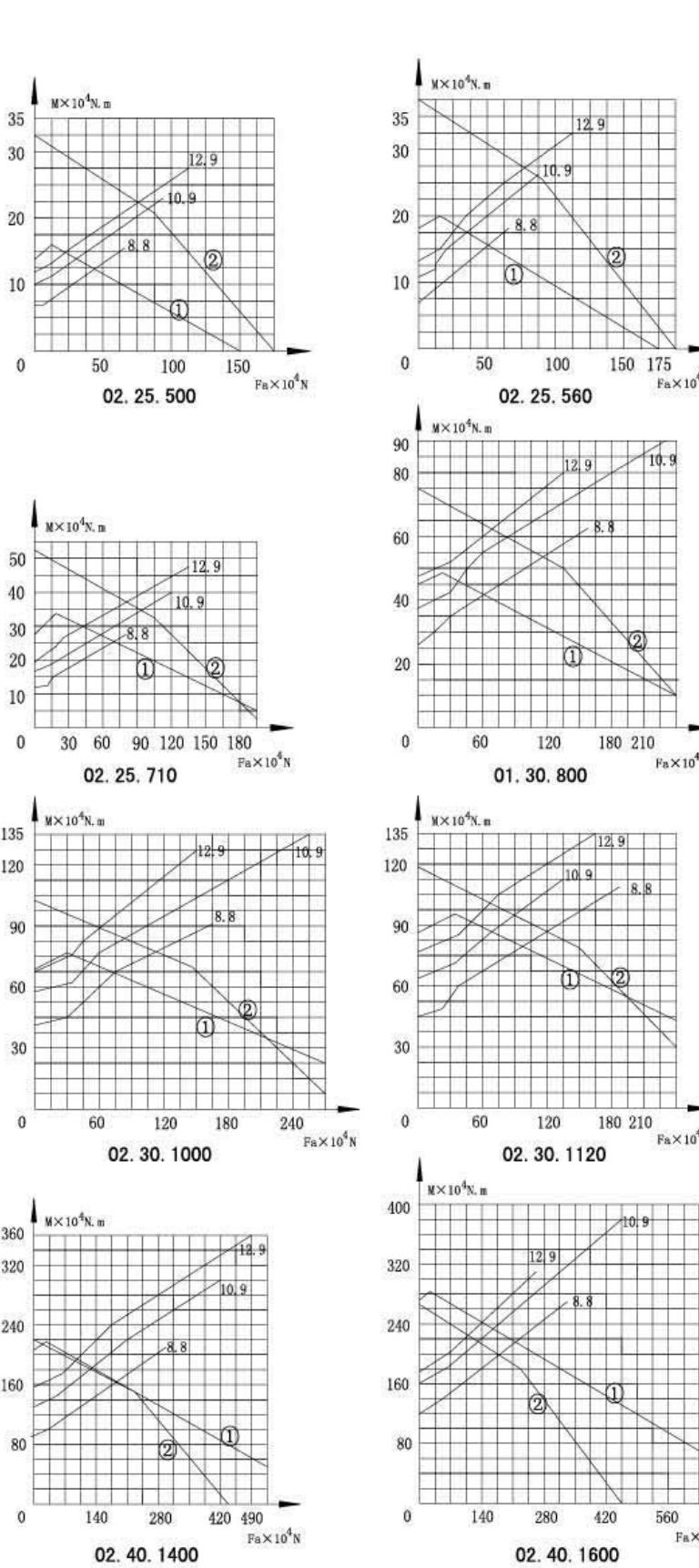
36

Technical Data:

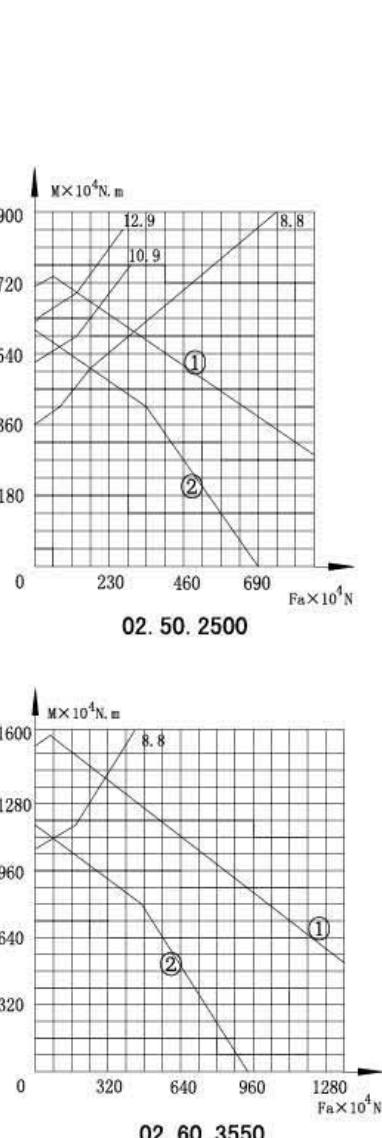
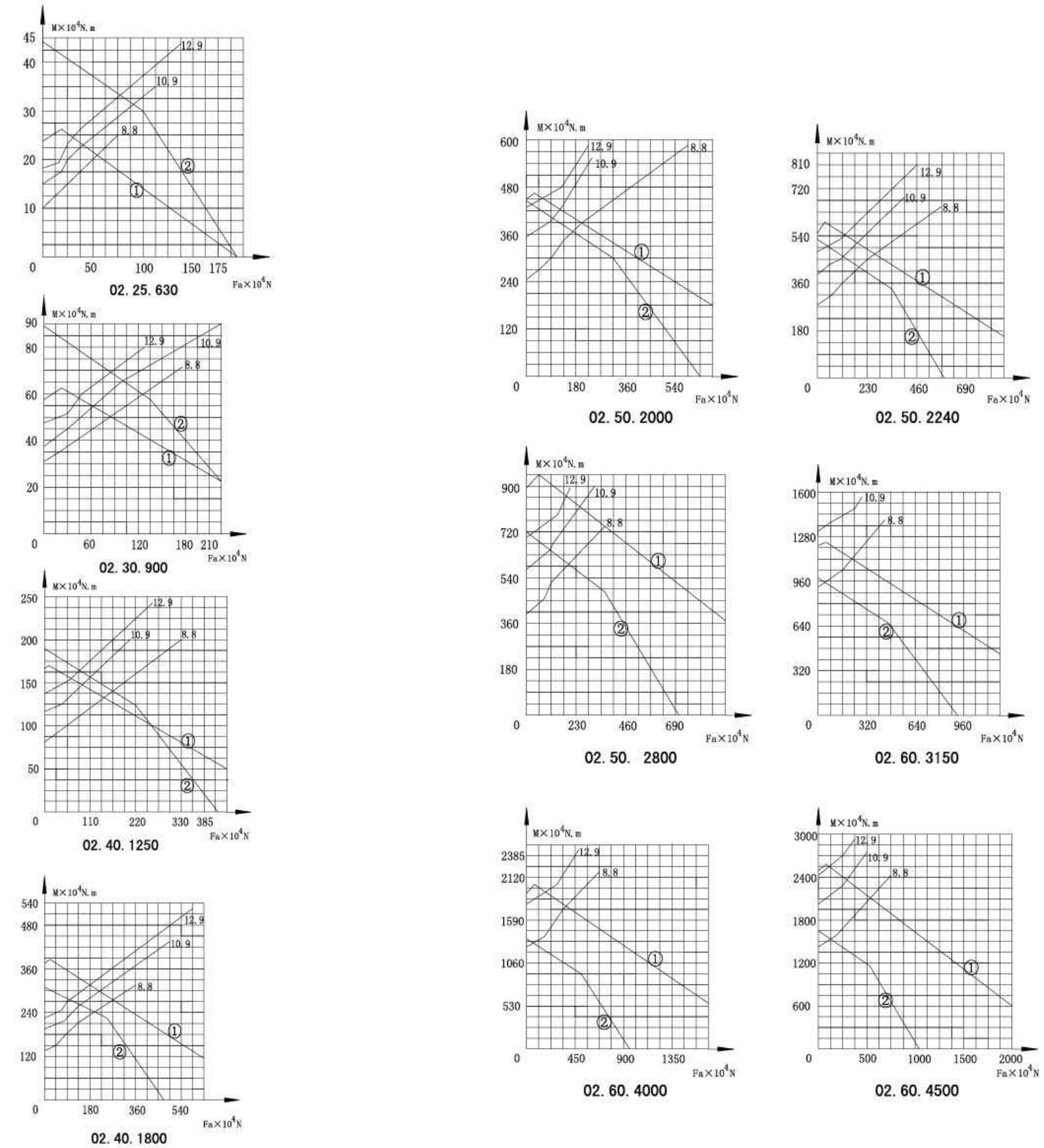
Designation			Dimensions			Mounting Hole Size						Structure dimensions						Basic load Ratings	Weight
INA	Rothe Erde	TG	D	d	H	D1	D2	n1	n2	φ1	φ2	D4	d2	H1	H2	d1	D3	Coa kN	kg
	230.20.0900.013		1048	834	56	1020	862	16	20	18	18			45.5	45.5	945.5	942.5	570	53.1
	230.20.0900.503		1048	834	56	1020	862	32	40	18	18			45.5	45.5	945.5	942.5	570	52.3
		SD.1050.20.00.C	1048	834	56	1020	862	16	20	18	φ 18	983	905	46	46	945.5	942.5	1440	55.6
VLU200944ZT			1048	834	56	1020	862	16	20	φ 18	φ 18	988.5	899.5	47.5	47.5	945.5	942.5	1350	61
VLU200944			1048	834	56	1020	862	16	20	18	18			47.5	47.5	945.5	942.5	670	54
	230.21.0975.013		1047	835	56	1020	862	16	20	18	18			45.5	45.5	945.5	942.5	570	53.1
	280.30.1000.013		1200	905	90	1160	945	30	30	22	22			71	71	1053.5	1056.5	1840	145
VLU301055			1200	905	90	1160	945	30	30	22	22			71	71	1053	1057	2800	149
		SD.1200.32.00.C	1200	905	90	1160	945	30	30	φ 22	φ 22	1117	993	71	71	1055	1055	2500	145
	280.30.1075.013		1198	907	90	1160	945	30	30	22	22			71	71	1053.5	1056.5	1840	145
	230.20.1000.013		1198	984	56	1170	1012	16	20	18	18			45.5	45.5	1095.5	1092.5	665	61.9
	230.20.1000.503		1198	984	56	1170	1012	32	40	18	18			45.5	45.5	1095.5	1092.5	665	61.1
		SD.1200.20.00.C	1198	984	56	1170	1012	16	20	18	φ 18	1133	1055	46	46	1095.5	1092.5	1700	62.8
VLU 201094			1198	984	56	1170	1012	16	20	18	18			47.5	47.5	1095.5	1092.5	770	62.5
		SD.1200.20.00.C	1198	984	56	1170	1012	16	20	φ 18	φ 18	1133	1055	46	46	1095.5	1092.5	780	62
	230.21.1075.013		1197	985	56	1170	1012	16	20	18	18			45.5	45.5	1095.5	1092.5	665	61.9
	280.30.1100.013		1300																

**FOUR POINT CONTACT BALL SLEWING BEARING LOAD CURVE**

**FOUR POINT CONTACT BALL SLEWING BEARING LOAD CURVE**


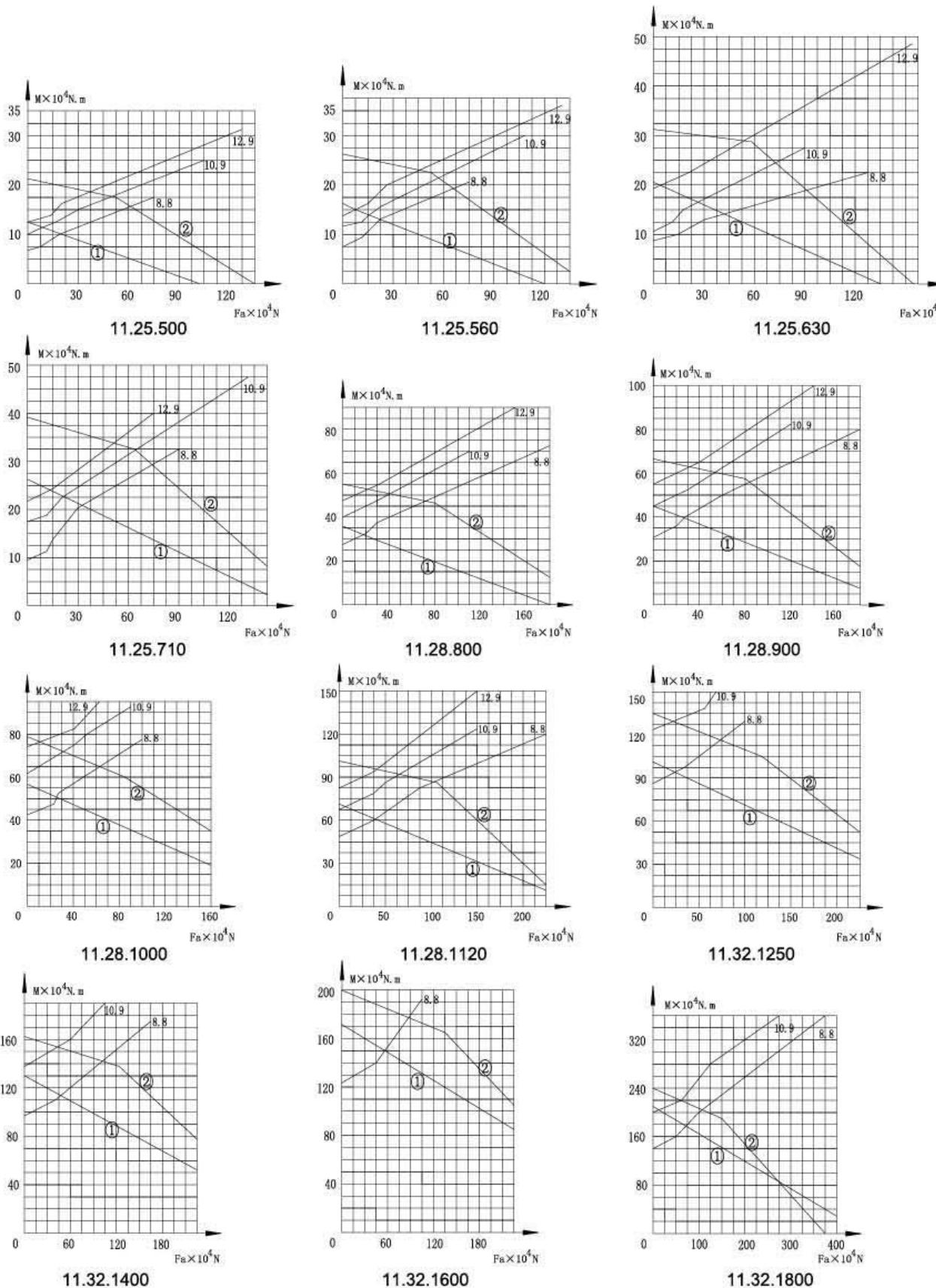
## DOUBLE ROW BALL SLEWING BEARING LOAD CURVE



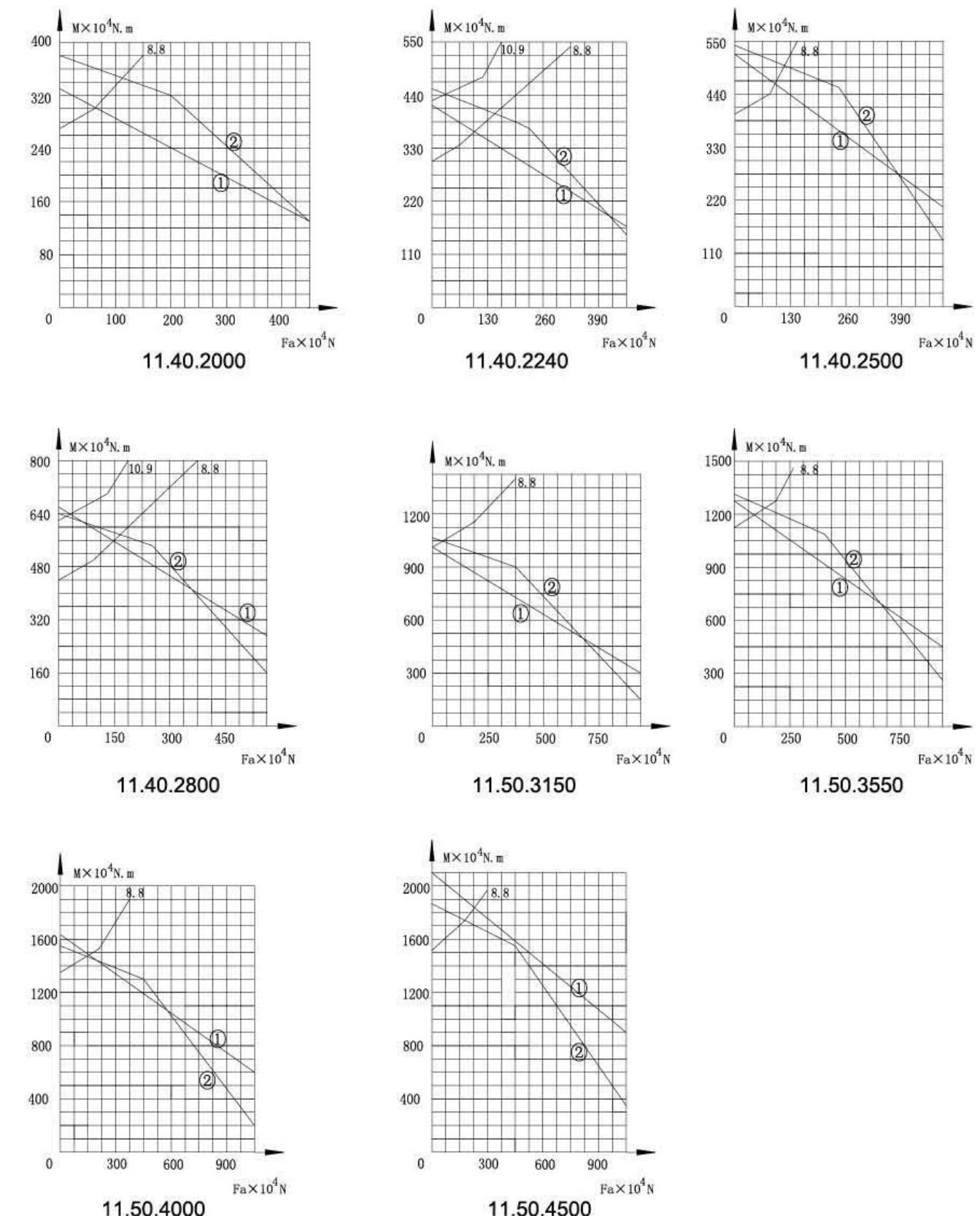
## DOUBLE ROW BALL SLEWING BEARING LOAD CURVE



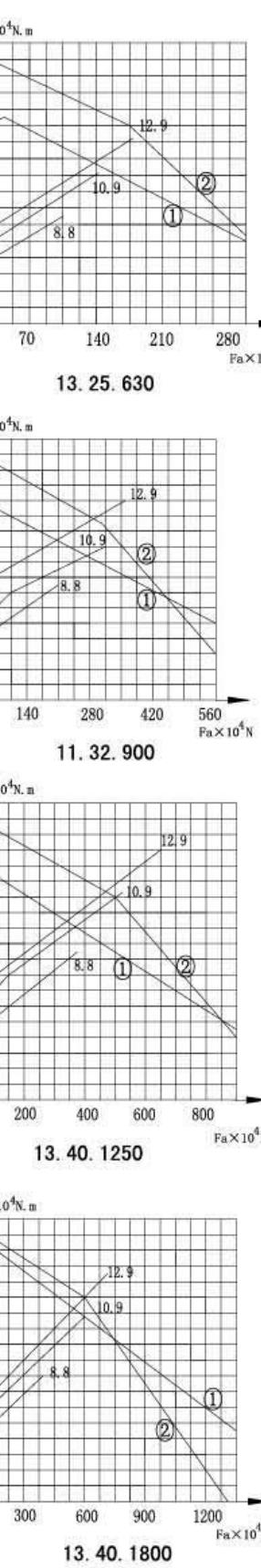
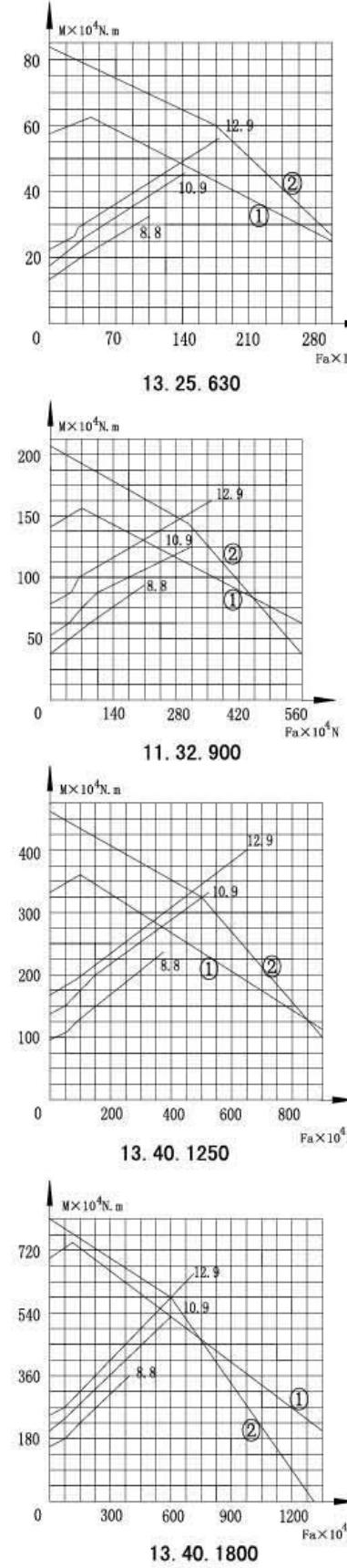
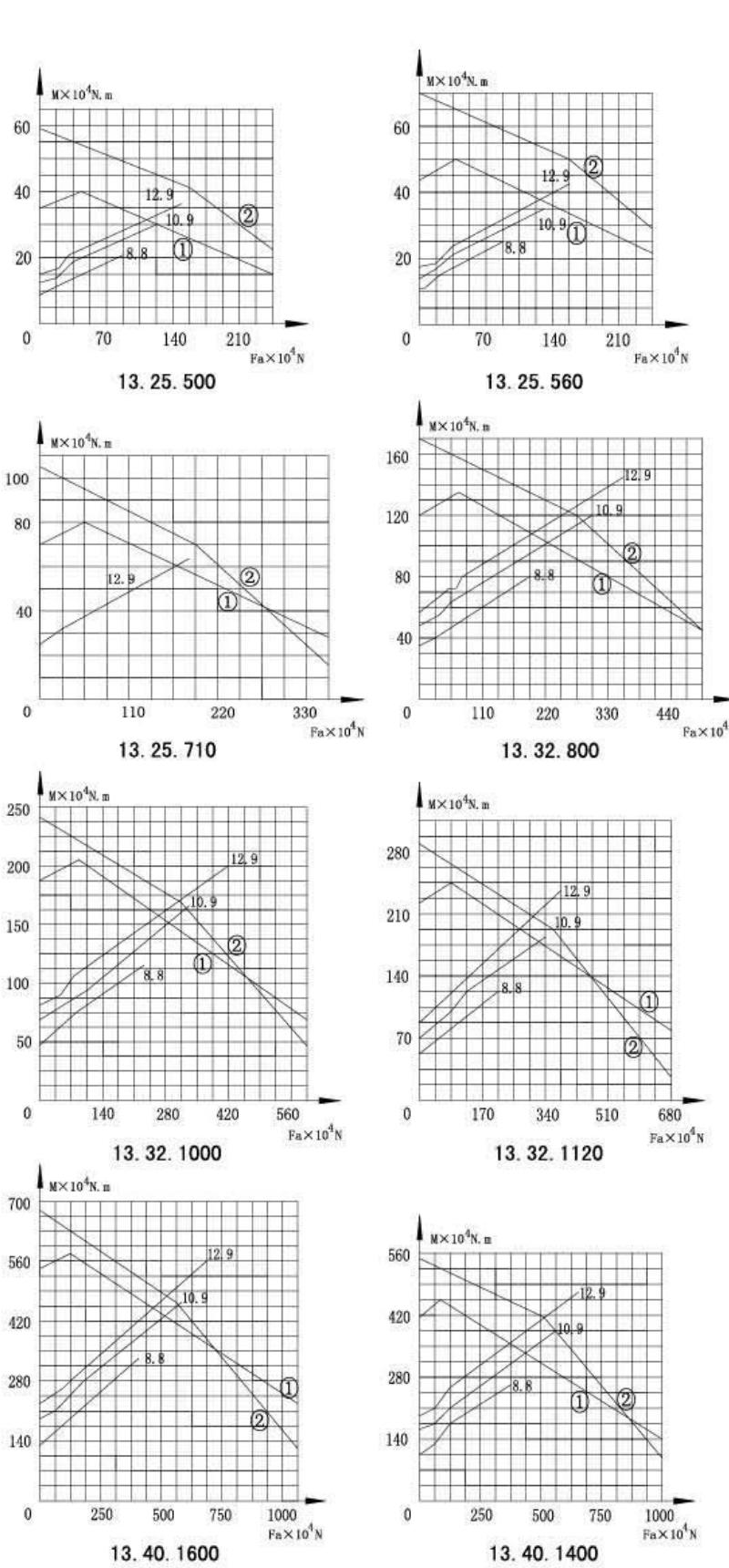
### CROSSED ROLLER SLEWING BEARINGC LOAD CURVE



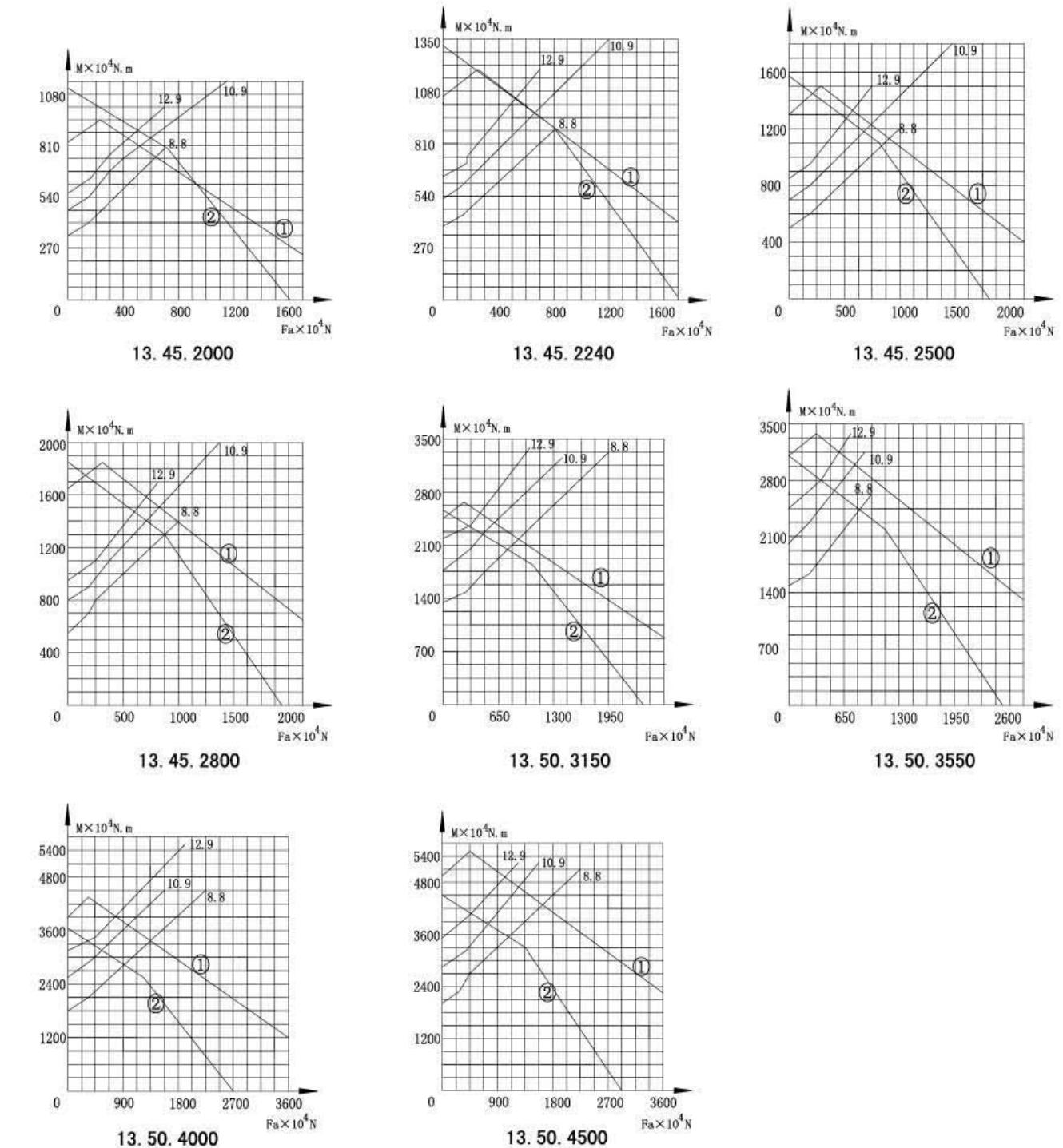
### CROSSED ROLLER SLEWING BEARINGC LOAD CURVE



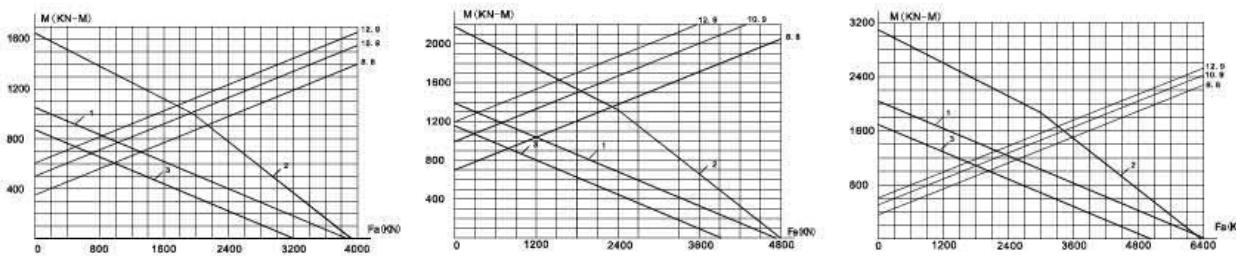
### THREE ROW ROLLER SLEWING BEARING LOAD CURVE



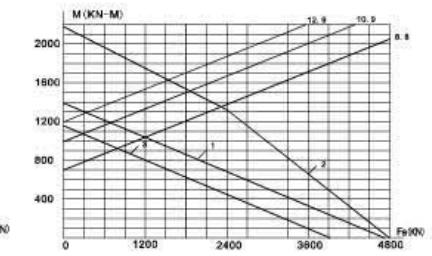
### THREE ROW ROLLER SLEWING BEARING LOAD CURVE



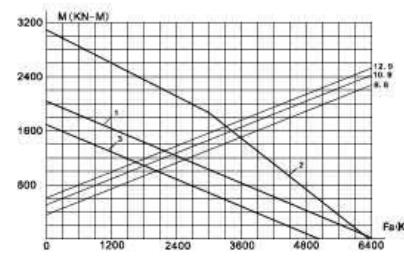
## CROSSED ROLLER SLEWING BEARING LOAD CURVE



792/1000G2

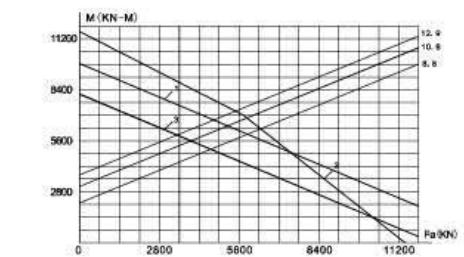


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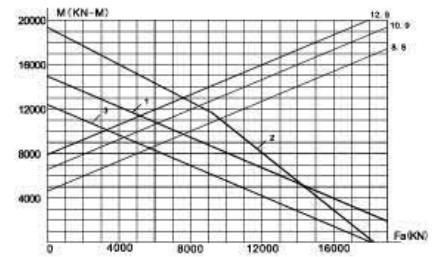


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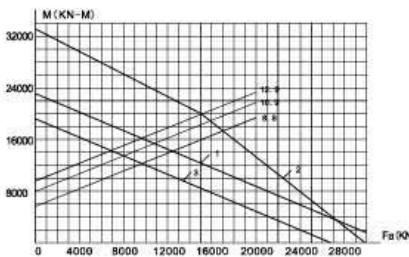
## CROSSED ROLLER SLEWING BEARING LOAD CURVE



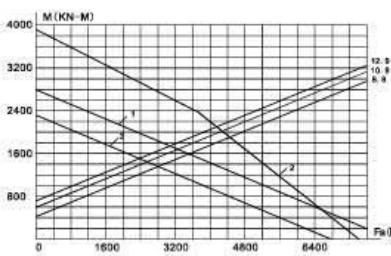
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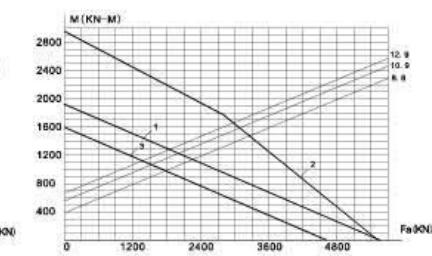
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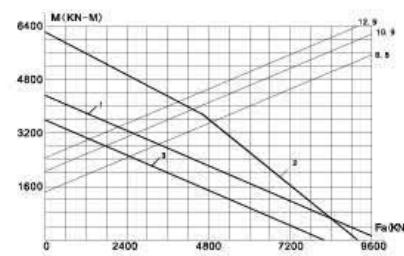
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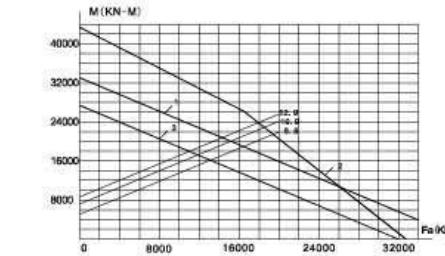
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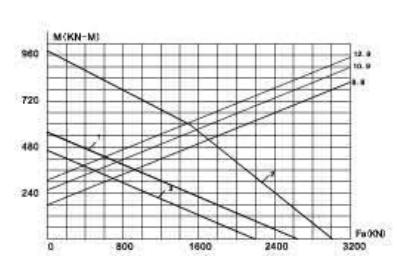
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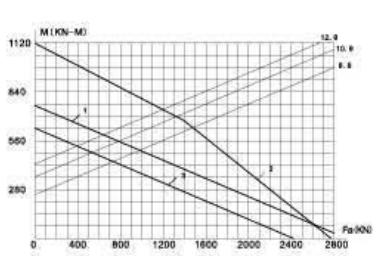
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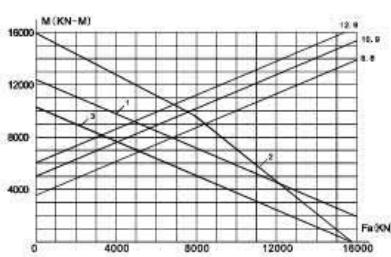
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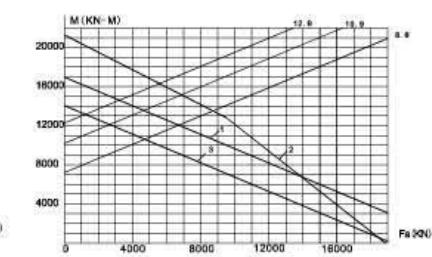
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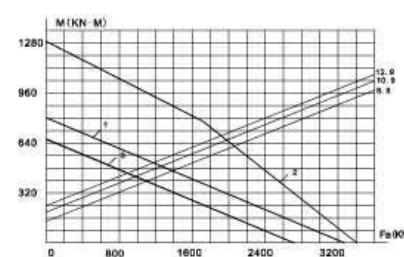
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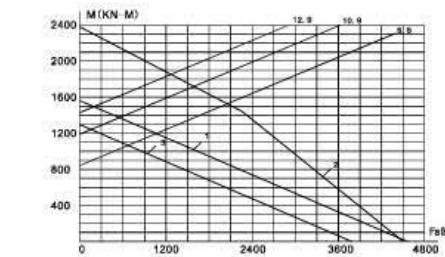
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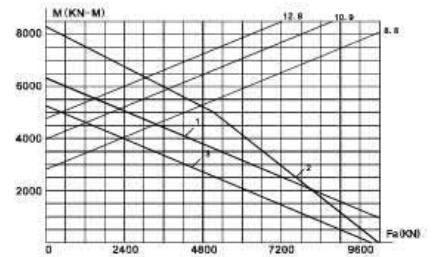
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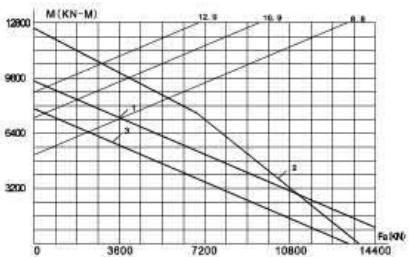
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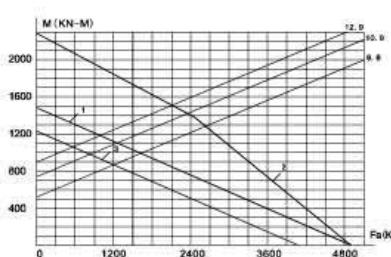
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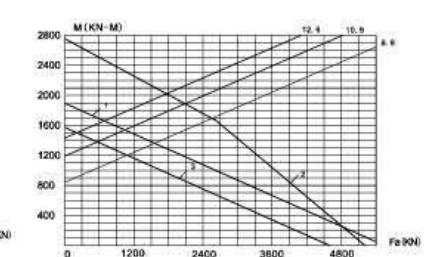
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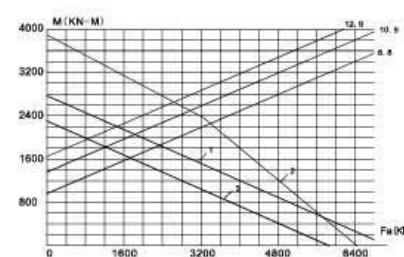
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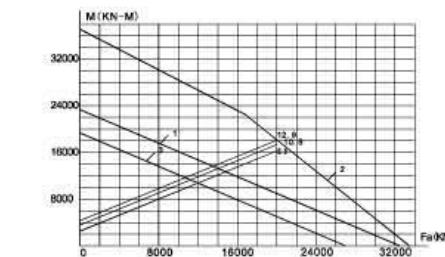
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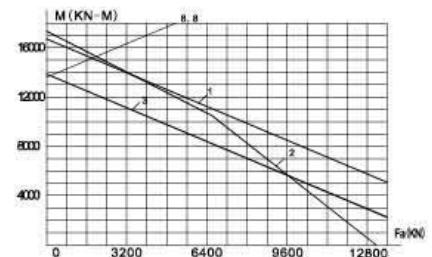
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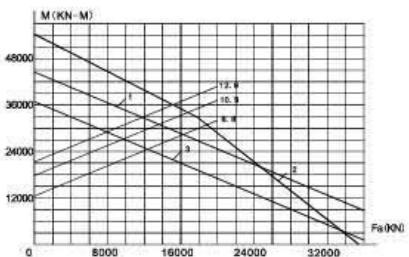
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2797/2680GK



3-943G2



2797/3780G2